Independent Statistics & Analysis
U.S. Energy Information Administration

Electric Power Monthly
with Data for November 2015

January 2016

This report was prepared by the U.S. Energy Information Administration (EIA), the statistical and analytical agency within the U.S. Department of Energy. By law, EIA's data, analyses, and forecasts are independent of approval by any other officer or employee of the United States Government. The views in this report therefore should not be construed as representing those of the Department of Energy or other Federal agencies

Independent Statistics & Analysis
www.eia.gov

U.S. Department of Energy
Washington, DC 20585

Contacts

The Electric Power Monthly is prepared by the U.S. Energy Information Administration.

Questions and comments concerning the contents of the Electric Power Monthly may be directed to:

Ronald Hankey, Project Leader
U.S. Energy Information Administration, EI-23
U.S. Department of Energy
1000 Independence Avenue, S.W.
Washington, DC, 20585-0650

Email address: infoelectric@eia.gov

Subject specialists:

Subject	Specialist
U.S. electric net generation	Ronald Hankey
U.S. electric consumption of fuels	Christopher Cassar
U.S. electric stocks of fuels	Christopher Cassar
U.S. electric fossil-fuel receipts	Rebecca Peterson
U.S. electric fossil-fuel costs	Rebecca Peterson
U.S. sales of electricity to ultimate consumers	Peter Wong
Sampling and estimation methodologies	Orhan Yildiz.

Requests for additional information on other statistics available from the U.S. Energy Information Administration or questions concerning subscriptions and report distribution may be directed to the Office of Communications of the U.S. Energy Information Administration at infoctr@eia.gov.

Preface

The Electric Power Monthly (EPM) presents monthly electricity statistics for a wide audience including Congress, Federal and State agencies, the electric power industry, and the general public. The purpose of this publication is to provide energy decision makers with accurate and timely information that may be used in forming various perspectives on electric issues that lie ahead. In order to provide an integrated view of the electric power industry, data in this report have been separated into two major categories: electric power sector and combined heat and power producers. The U.S. Energy Information Administration (EIA) collected the information in this report to fulfill its data collection and dissemination responsibilities as specified in the Federal Energy Administration Act of 1974 (Public Law 93 275) as amended.

Background

The Office of Electricity, Renewables & Uranium Statistics, U.S. EIA, U.S. Department of Energy, prepares the EPM. This publication provides monthly statistics at the State (lowest level of aggregation), Census Division, and U.S. levels for net generation, fossil fuel consumption and stocks, cost, quantity, and quality of fossil fuels received, sales of electricity to ultimate consumers, associated revenue, and average price of electricity sold. In addition, the report contains rolling 12-month totals in the national overviews, as appropriate.

Data sources

The EPM contains information from the following data sources: Form EIA-923, "Power Plant Operations Report;" Form EIA-826, "Monthly Electric Sales and Revenue With State Distributions Report;" Form EIA-860, "Annual Electric Generator Report;" Form EIA-860M, "Monthly Update to the Annual Electric Generator Report;" and Form EIA-861, "Annual Electric Power Industry Report." Forms and their instructions may be obtained from: http://www.eia.gov/survey/#electricity. A detailed description of these forms and associated algorithms are found in Appendix C, “Technical Notes.”

Table of Contents

Contacts

- Quality

Preface

- Background
- Data Sources
- Table and Figure Index

References

Glossary

Table and Figure Index

Executive Summary

Table ES.1.A. Total Electric Power Industry Summary Statistics
Table ES.1.B. Total Electric Power Industry Summary Statistics, Year-to-Date
Table ES.2.A. Summary Statistics: Receipts and Cost of Fossil Fuels for the Electric Power Industry by Sector, Physical Units
Table ES.2.B. Summary Statistics: Receipts and Cost of Fossil Fuels for the Electric Power Industry by Sector, Btus

Chapter 1. Net Generation

Table 1.1. Net Generation by Energy Source: Total (All Sectors)
Table 1.1.A. Net Generation from Renewable Sources: Total (All Sectors)
Table 1.2.A. Net Generation by Energy Source: Electric Utilities
Table 1.2.B. Net Generation by Energy Source: Independent Power Producers
Table 1.2.C. Net Generation by Energy Source: Commercial Combined Heat and Power Sector
Table 1.2.D. Net Generation by Energy Source: Industrial Combined Heat and Power Sector
Table 1.2.E. Net Generation by Energy Source: Residential Sector
Table 1.3.A. Net Generation by State by Sector
Table 1.3.B. Net Generation by State by Sector, Year-to-Date
Table 1.4.A. Net Generation from Coal by State by Sector
Table 1.4.B. Net Generation from Coal by State by Sector, Year-to-Date
Table 1.5.A. Net Generation from Petroleum Liquids by State by Sector
Table 1.5.B. Net Generation from Petroleum Liquids by State by Sector, Year-to-Date
Table 1.6.A. Net Generation from Petroleum Coke by State by Sector
Table 1.6.B. Net Generation from Petroleum Coke by State by Sector, Year-to-Date
Table 1.7.A. Net Generation from Natural Gas by State by Sector
Table 1.7.B. Net Generation from Natural Gas by State by Sector, Year-to-Date
Table 1.8.A. Net Generation from Other Gases by State by Sector
Table 1.8.B. Net Generation from Other Gases by State by Sector, Year-to-Date
Table 1.9.A. Net Generation from Nuclear Energy by State by Sector
Table 1.9.B. Net Generation from Nuclear Energy by State by Sector, Year-to-Date
Table 1.10.A. Net Generation from Hydroelectric (Conventional) Power by State by Sector
Table 1.10.B. Net Generation from Hydroelectric (Conventional) Power by State by Sector, Year-to-Date
Table 1.11.A. Net Generation from Renewable Sources Excluding Hydroelectric by State by Sector
Table 1.11.B. Net Generation from Renewable Sources Excluding Hydroelectric by State by Sector, Year-to-Date
Table 1.12.A. Net Generation from Hydroelectric (Pumped Storage) Power by State by Sector
Table 1.12.B. Net Generation from Hydroelectric (Pumped Storage) Power by State by Sector, Year-to-Date
Table 1.13.A. Net Generation from Other Energy Sources by State by Sector
Table 1.13.B. Net Generation from Other Energy Sources by State by Sector, Year-to-Date
Table 1.14.A. Net Generation from Wind by State by Sector
Table 1.14.B. Net Generation from Wind by State by Sector, Year-to-Date
Table 1.15.A. Net Generation from Biomass by State by Sector

Table 1.15.B. Net Generation from Biomass by State by Sector, Year-to-Date
Table 1.16.A. Net Generation from Geothermal by Census Division by Sector
Table 1.16.B. Net Generation from Geothermal by Census Division by Sector, Year-to-Date
Table 1.17.A. Net Generation from Solar Photovoltaic by Census Division by Sector
Table 1.17.B. Net Generation from Solar Pholtovoltaic by Census Division by Sector, Year-to-Date
Table 1.18.A. Net Generation from Solar Thermal by Sector
Table 1.18.B. Net Generation from Solar Thermal by Census Division by Sector, Year-to-Date

Chapter 2. Consumption of Fossil Fuels

Table 2.1.A. Coal: Consumption for Electricity Generation by Sector
Table 2.1.B. Coal: Consumption for Useful Thermal Output by Sector
Table 2.1.C. Coal: Consumption for Electricity Generation and Useful Thermal Output by Sector
Table 2.2.A. Petroleum Liquids: Consumption for Electricity Generation by Sector
Table 2.2.B. Petroleum Liquids: Consumption for Useful Thermal Output by Sector
Table 2.2.C. Petroleum Liquids: Consumption for Electricity Generation and Useful Thermal Output by Sector
Table 2.3.A. Petroleum Coke: Consumption for Electricity Generation by Sector
Table 2.3.B. Petroleum Coke: Consumption for Useful Thermal Output by Sector
Table 2.3.C. Petroleum Coke: Consumption for Electricity Generation and Useful Thermal Output by Sector
Table 2.4.A. Natural Gas: Consumption for Electricity Generation by Sector
Table 2.4.B. Natural Gas: Consumption for Useful Thermal Output by Sector
Table 2.4.C. Natural Gas: Consumption for Electricity Generation and Useful Thermal Output by Sector
Table 2.5.A. Landfill Gas: Consumption for Electricity Generation by Sector
Table 2.5.B. Landfill Gas: Consumption for Useful Output by Sector
Table 2.5.C. Landfill Gas: Consumption for Electricity Generation and Useful Thermal Output by Sector
Table 2.6.A. Biogenic Municipal Solid Waste: Consumption for Electricity Generation by Sector
Table 2.6.B. Biogenic Municipal Solid Waste: Consumption for Useful Thermal Output by Sector
Table 2.6.C. Biogenic Municipal Solid Waste: Consumption for Electricity Generation and Useful Thermal Output by Sector
Table 2.7.A. Consumption of Coal for Electricity Generation by State by Sector
Table 2.7.B. Consumption of Coal for Electricity Generation by State by Sector, Year-to-Date
Table 2.8.A. Consumption of Petroleum Liquids for Electricity Generation by State by Sector
Table 2.8.B. Consumption of Petroleum Liquids for Electricity Generation by State by Sector, Year-to-Date
Table 2.9.A. Consumption of Petroleum Coke for Electricity Generation by State by Sector
Table 2.9.B. Consumption of Petroleum Coke for Electricity Generation by State by Sector, Year-to-Date
Table 2.10.A. Consumption of Natural Gas for Electricity Generation by State by Sector
Table 2.10.B. Consumption of Natural Gas for Electricity Generation by State by Sector, Year-to-Date
Table 2.11.A. Consumption of Landfill Gas for Electricity Generation by State by Sector
Table 2.11.B. Consumption of Landfill Gas for Electricity Generation by State by Sector, Year-to-Date
Table 2.12.A. Consumption of Biogenic Municipal Solid Waste for Electricity Generation by State by Sector
Table 2.12.B. Consumption of Biogenic Municipal Solid Waste for Electricity Generation by State by Sector, Year-to-Date

Chapter 3. Fossil-Fuel Stocks for Electricity Generation

Table 3.1. Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector
Table 3.2. Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, by State
Table 3.3. Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, by Census Division
Table 3.4. Stocks of Coal by Coal Rank

Chapter 4. Receipts and Cost of Fossil Fuels

Table 4.1. Receipts, Average Cost, and Quality of Fossil Fuels: Total (All Sectors)
Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities
Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers
Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector
Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector
Table 4.6.A. Receipts of Coal Delivered for Electricity Generation by State
Table 4.6.B. Receipts of Coal Delivered for Electricity Generation by State, Year-to-Date
Table 4.7.A. Receipts of Petroleum Liquids Delivered for Electricity Generation by State
Table 4.7.B. Receipts of Petroleum Liquids Delivered for Electricity Generation by State, Year-to-Date
Table 4.8.A. Receipts of Petroleum Coke Delivered for Electricity Generation by State
Table 4.8.B. Receipts of Petroleum Coke Delivered for Electricity Generation by State, Year-to-Date
Table 4.9.A. Receipts of Natural Gas Delivered for Electricity Generation by State
Table 4.9.B. Receipts of Natural Gas Delivered for Electricity Generation by State, Year-to-Date
Table 4.10.A. Average Cost of Coal Delivered for Electricity Generation by State
Table 4.10.B. Average Cost of Coal Delivered for Electricity Generation by State, Year-to-Date
Table 4.11.A. Average Cost of Petroleum Liquids Delivered for Electricity Generation by State
Table 4.11.B. Average Cost of Petroleum Liquids Delivered for Electricity Generation by State, Year-to-Date
Table 4.12.A. Average Cost of Petroleum Coke Delivered for Electricity Generation by State
Table 4.12.B. Average Cost of Petroleum Coke Delivered for Electricity Generation by State, Year-to-Date
Table 4.13.A. Average Cost of Natural Gas Delivered for Electricity Generation by State
Table 4.13.B. Average Cost of Natural Gas Delivered for Electricity Generation by State, Year-to-Date
Table 4.14. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Total (All Sectors) by State
Table 4.15. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Electric Utilities by State
Table 4.16. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Independent Power Producers by State
Table 4.17. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Commercial Combined Heat and Power Producers by State
Table 4.18. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Industrial Combined Heat and Power Producers by State

Chapter 5. Sales to Ultimate Consumers, Revenue, and Average Price of Electricity to Ultimate Consumers

Table 5.1. Sales of Electricity to Ultimate Customers: Total by End-Use Sector
Table 5.2. Revenue from Sales of Electricity to Ultimate Customers: Total by End-Use Sector

Table 5.3. Average Price of Electricity to Ultimate Customers: Total by End-Use Sector
Table 5.4.A. Sales of Electricity to Ultimate Customers by End-Use Sector, by State
Table 5.4.B. Sales of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date
Table 5.5.A. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State
Table 5.5.B. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date
Table 5.6.A. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State
Table 5.6.B. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date
Table 5.7. Number of Ultimate Consumers Served, by Sector
Table 5.8. Number of Ultimate Consumers Served, by Sector and State

Chapter 6. Capacity

Table 6.1. Electric Generating Summer Capacity Changes (MW) for Utility Scale Units
Table 6.1.A. Net Summer Capacity for Utility Scale Solar Photovoltaic and Distributed Solar Photovoltaic Capacity (Megawatts), 2008-September 2015
Table 6.1.B. Net Summer Capacity for Estimated Distributed Solar Photovoltaic Capacity by Sector
Table 6.2.A. Net Summer Capacity of Utility Scale Units by Technology and by State
Table 6.2.B. Net Summer Capacity Using Primarily Renewable Energy Sources by State
Table 6.2.C. Net Summer Capacity of Utility Scale Units Using Primarily Fossil Fuels by State
Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month
Table 6.4. Retired Utility Scale Generating Units by Operating Company, Plant, and Month
Table 6.5. Planned U.S. Electric Generating Unit Additions
Table 6.6 Planned U.S. Electric Generating Unit Retirements
Table 6.7.A. Capacity Factors for Utility Scale Generators Primarily Using Fossil Fuels
Table 6.7.B. Capacity Factors for Utility Scale Generators Not Primarily Using Fossil Fuels
Figure 6.1.A. Utility Scale Generating Units Added
Figure 6.1.B. Utility Scale Generating Units Retired
Figure 6.1.C. Utility Scale Generating Units Planned to Come Online
Figure 6.1.D. Utility Scale Generating Units Planned to Retire

Appendices

Table A.1.A. Relative Standard Error for Net Generation by Fuel Type: Total (All Sectors) by Census Division and State
Table A.1.A. Relative Standard Error for Net Generation by Fuel Type: Total (All Sectors) by Census Division and State (Continued)
Table A.1.B. Relative Standard Error for Net Generation by Fuel Type: Total (All Sectors) by Census Division and State, Year-to-Date
Table A.1.B. Relative Standard Error for Net Generation by Fuel Type: Total (All Sectors) by Census Division and State, Year-to-Date (Continued)
Table A.2.A. Relative Standard Error for Net Generation by Fuel Type: Electric Utilities by Census Division and State
Table A.2.A. Relative Standard Error for Net Generation by Fuel Type: Electric Utilities by Census Division and State (Continued)

Table A.2.B. Relative Standard Error for Net Generation by Fuel Type: Electric Utilities by Census Division and State, Year-to-Date

Table A.2.B. Relative Standard Error for Net Generation by Fuel Type: Electric Utilities by Census Division and State, Year-to-Date (Continued)

Table A.3.A. Relative Standard Error for Net Generation by Fuel Type: Independent Power Producers by Census Division and State

Table A.3.A. Relative Standard Error for Net Generation by Fuel Type: Independent Power Producers by Census Division and State (Continued)

Table A.3.B. Relative Standard Error for Net Generation by Fuel Type: Independent Power Producers by Census Division and State, Year-to-Date

Table A.3.B. Relative Standard Error for Net Generation by Fuel Type: Independent Power Producers by Census Division and State, Year-to-Date (Continued)

Table A.4.A. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State

Table A.4.A. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State (Continued)

Table A.4.B. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, Year-to-Date

Table A.4.B. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, Year-to-Date (Continued)

Table A.5.A. Relative Standard Error for Net Generation by Fuel Type: Industrial Sector by Census Division and State

Table A.5.A. Relative Standard Error for Net Generation by Fuel Type: Industrial Sector by Census Division and State, (Continued)

Table A.5.B. Relative Standard Error for Net Generation by Fuel Type: Industrial Sector by Census Division and State, Year-to-Date

Table A.5.B. Relative Standard Error for Net Generation by Fuel Type: Industrial Sector by Census Division and State, Year-to-Date (Continued)

Table A.6.A. Relative Standard Error for Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State

Table A.6.B. Relative Standard Error for Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, Year-to-Date

Table A.7.A. Relative Standard Error for Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State

Table A.7.B. Relative Standard Error for Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, Year-to-Date

Table A.8.A. Relative Standard Error for Average Price of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State

Table A.8.B. Relative Standard Error for Average Price of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, Year-to-Date

Table B.1. Major Disturbances and Unusual Occurrences, Year-to-Date

Table B.2 Major Disturbances and Unusual Occurrences, Prior Year

Table C.1. Average Heat Content of Fossil-Fuel Receipts

Table C.2. Comparison of Preliminary Monthly Data versus Final Monthly Data at the U.S. Level

Table C.3. Comparison of Annual Monthly Estimates versus Annual Data at the U.S. Level, All Sectors

Table C.4. Unit-of-Measure Equivalents for Electricity

Table ES1.A. Total Electric Power Industry Summary Statistics, 2015 and 2014

Net Generation and Consumption of Fuels for November														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	87,789	119,127	-26.3%	65,529	87,064	21,334	31,053	33	44	893	966	0	0
Petroleum Liquids	Utility Scale Facilities	1,016	963	5.5%	737	643	225	268	6	9	49	42	0	0
Petroleum Coke	Utility Scale Facilities	701	775	-9.5%	490	577	140	88	1	1	NM	108	0	0
Natural Gas	Utility Scale Facilities	101,866	84,354	20.8%	46,677	37,477	47,144	39,234	650	560	7,395	7,083	0	0
Other Gas	Utility Scale Facilities	848	1,073	-21.0%	0	9	211	292	0	0	637	772	0	0
Nuclear	Utility Scale Facilities	60,264	65,140	-7.5%	30,751	34,552	29,513	30,589	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	19,381	18,625	4.1%	17,733	17,369	1,535	1,155	NM	2	109	99	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	28,251	26,807	5.4%	3,710	3,564	21,906	20,701	285	245	2,350	2,298	0	0
... Wind	Utility Scale Facilities	19,693	18,867	4.4%	3,094	3,012	16,582	15,835	12	13	NM	6	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	1,889	1,380	36.9%	117	91	1,730	1,260	40	28	NM	1	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	3,420	3,508	-2.5%	273	251	925	1,080	NM	2	2,220	2,175	0	0
... Other Biomass	Utility Scale Facilities	1,864	1,691	10.3%	132	116	1,378	1,257	232	202	122	115	0	0
... Geothermal	Utility Scale Facilities	1,384	1,362	1.6%	94	93	1,290	1,269	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-285	-531	-46.3%	-218	-441	-67	-90	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	1,102	1,161	-5.1%	46	55	565	578	100	98	392	429	0	0
All Energy Sources	Utility Scale Facilities	300,933	317,495	-5.2%	165,454	180,869	122,504	123,869	1,079	960	11,896	11,797	0	0
Estimated Distributed Solar Photovoltaic	Distributed Facilities	836	673	24.3%	0	0	0	0	326	287	81	67	429	319
Estimated Total Solar Photovoltaic	All Facilities	2,521	1,904	32.4%	113	85	1,529	1,118	366	314	NM	68	429	319
Estimated Total Solar	All Facilities	2,726	2,052	32.8%	117	91	1,730	1,260	366	314	NM	68	429	319
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	49,200	64,651	-23.9%	36,139	46,561	12,742	17,720	11	14	306	356	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,763	1,681	4.9%	1,393	1,230	305	362	8	28	57	60	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	257	288	-10.9%	178	228	62	33	0	0	NM	27	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	765,530	633,279	20.9%	361,158	288,760	345,917	287,096	6,088	5,496	52,366	51,927	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	1,723	1,480	16.5%	344	76	118	138	59	68	1,202	1,198	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	226	220	3.0%	1	0	88	90	9	4	128	125	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	121	104	15.7%	3	1	10	9	2	2	NM	92	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	77,570	70,483	10.1%	777	534	24,813	24,002	4,582	3,672	47,397	42,274	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	50,923	66,131	-23.0%	36,484	46,637	12,860	17,858	70	82	1,509	1,554	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	1,989	1,900	4.6%	1,394	1,230	394	453	17	32	184	186	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	377	393	-3.9%	181	229	72	42	2	2	NM	120	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	843,100	703,762	19.8%	361,936	289,294	370,730	311,098	10,671	9,169	99,764	94,202	0	0
Fuel Stocks (end-of-month)														
Coal (1000 tons)	Utility Scale Facilities	190,372	145,233	31.1%	150,267	110,221	38,272	32,374	150	288	1,684	2,349	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	33,509	35,318	-5.1%	20,620	22,103	11,218	10,726	248	568	1,423	1,920	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,417	914	54.9%	W	W	W	W	W	W	W	W	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for November									
	Total U.S. Electric Power Industry								
	Sales of Electricity to Ultimate Customers (million kWh)			Revenue from Sales of Electricity to Ultimate Customers (million dollars)			Average Price of Electricity to Ultimate Customers (cents/kWh)		
Sector	November 2015	November 2014	Percentage Change	November 2015	November 2014	Percentage Change	November 2015	November 2014	Percentage Change
Residential	92,390	99,486	-7.1%	11,761	12,417	-5.3%	12.73	12.48	2.0%
Commercial	103,935	104,245	-0.3%	10,764	10,967	-1.8%	10.36	10.52	-1.5%
Industrial	76,357	81,044	-5.8%	5,057	5,470	-7.5%	6.62	6.75	-1.9%
Transportation	606	637	-4.9%	59	65	-9.7%	9.69	10.20	-5.0%
All Sectors	273,287	285,413	-4.2%	27,641	28,920	-4.4%	10.11	10.13	-0.2%

NM = Not meaningful due to large relative standard error.
W = Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Coal generation and consumption includes anthracite, bituminous, subbituminous, lignite, waste coal, refined coal, synthetic coal, and coal-derived synthesis gas.
Petroleum Liquids includes distillate fuel oil, residual fuel oil, jet fuel, kerosene, propane, and waste oil.
Petroleum Coke includes petroleum coke and synthesis gas derived from petroleum coke.
Natural gas includes a small amount of supplemental gaseous fuels that cannot be identified separately.
Other Gases includes blast furnace gas and other manufactured and waste gases derived from fossil fuels.
Wood and Wood-Derived Fuels include wood, black liquor, and other wood waste.
Other Biomass includes biogenic municipal solid waste, landfill gas, sludge waste, agricultural byproducts, and other biomass.
Coal stocks include anthracite, bituminous, subbituminous, lignite, refined coal, and synthetic coal; waste coal is excluded.
Sales of electricity to ultimate customers and net generation may not correspond exactly for a particular month for a variety of reasons (e.g., sales data may include imported electricity).
Net generation is presented for the calendar month while sales of electricity to ultimate customers and associated revenue accumulate from bills collected for periods of time that vary depending

Table ES1.B. Total Electric Power Industry Summary Statistics, Year-to-Date 2015 and 2014

Net Generation and Consumption of Fuels for January through November														
		Total (All Sectors)			Electric Power Sector				Commercial		Industrial		Residential	
					Electric Utilities		Independent Power Producers							
Fuel	Facility Type	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
Net Generation (Thousand Megawatthours)														
Coal	Utility Scale Facilities	1,266,336	1,457,090	-13.1%	947,515	1,079,786	307,638	365,427	451	551	10,732	11,326	0	0
Petroleum Liquids	Utility Scale Facilities	16,470	17,330	-5.0%	9,919	10,029	5,844	6,561	193	236	514	503	0	0
Petroleum Coke	Utility Scale Facilities	10,227	10,807	-5.4%	7,674	8,260	1,539	1,271	8	8	1,005	1,268	0	0
Natural Gas	Utility Scale Facilities	1,223,218	1,035,571	18.1%	560,890	461,300	576,907	489,106	7,029	6,625	78,392	78,540	0	0
Other Gas	Utility Scale Facilities	11,800	10,869	8.6%	195	97	3,184	2,898	0	0	8,421	7,874	0	0
Nuclear	Utility Scale Facilities	727,544	723,803	0.5%	380,683	381,444	346,861	342,360	0	0	0	0	0	0
Hydroelectric Conventional	Utility Scale Facilities	227,819	237,038	-3.9%	208,931	217,771	17,658	18,074	NM	36	1,194	1,157	0	0
Renewable Sources Excluding Hydroelectric	Utility Scale Facilities	269,427	256,591	5.0%	33,947	31,675	206,188	195,769	3,107	2,982	26,185	26,164	0	0
... Wind	Utility Scale Facilities	170,602	166,944	2.2%	26,965	25,400	143,477	141,400	109	96	50	48	0	0
... Solar Thermal and Photovoltaic	Utility Scale Facilities	24,802	16,659	48.9%	1,552	1,146	22,708	15,147	519	350	23	16	0	0
... Wood and Wood-Derived Fuels	Utility Scale Facilities	38,769	38,603	0.4%	3,012	2,780	10,810	10,900	50	70	24,896	24,853	0	0
... Other Biomass	Utility Scale Facilities	19,851	19,883	-0.2%	1,426	1,326	14,781	14,844	2,428	2,466	1,216	1,247	0	0
... Geothermal	Utility Scale Facilities	15,404	14,502	6.2%	993	1,024	14,411	13,478	0	0	0	0	0	0
Hydroelectric Pumped Storage	Utility Scale Facilities	-4,702	-5,694	-17.4%	-3,785	-4,735	-918	-959	0	0	0	0	0	0
Other Energy Sources	Utility Scale Facilities	12,102	12,244	-1.2%	452	566	6,162	6,109	1,101	1,074	4,389	4,494	0	0
All Energy Sources	Utility Scale Facilities	3,760,242	3,755,649	0.1%	2,146,423	2,186,194	1,471,063	1,426,616	11,924	11,512	130,833	131,326	0	0
Estimated Distributed Solar Photovoltaic	Distributed Facilities	11,369	8,885	28.0%	0	0	0	0	4,714	4,071	1,114	882	5,540	3,932
Estimated Total Solar Photovoltaic	All Facilities	33,054	23,198	42.5%	1,447	1,030	19,695	12,917	5,234	4,422	1,138	897	5,540	3,932
Estimated Total Solar	All Facilities	36,171	25,544	41.6%	1,552	1,146	22,708	15,147	5,234	4,422	1,138	897	5,540	3,932
Consumption of Fossil Fuels for Electricity Generation														
Coal (1000 tons)	Utility Scale Facilities	691,230	785,834	-12.0%	510,477	574,259	176,747	207,134	151	185	3,854	4,255	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	27,888	29,810	-6.4%	17,853	18,385	8,948	10,321	380	421	708	684	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	3,807	3,989	-4.5%	2,888	3,105	645	539	2	2	273	342	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	9,228,388	7,870,489	17.3%	4,331,713	3,591,381	4,266,793	3,645,240	67,310	65,957	562,573	567,910	0	0
Consumption of Fossil Fuels for Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	15,880	16,534	-4.0%	1,144	891	1,472	1,679	633	787	12,631	13,177	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	2,859	2,899	-1.4%	62	63	1,128	1,089	174	212	1,495	1,536	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	1,286	1,168	10.1%	9	3	99	80	15	14	1,163	1,071	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	842,262	790,531	6.5%	7,693	4,365	280,152	266,226	48,310	42,751	506,108	477,188	0	0
Consumption of Fossil Fuels for Electricity Generation and Useful Thermal Output														
Coal (1000 tons)	Utility Scale Facilities	707,110	802,369	-11.9%	511,621	575,150	178,219	208,813	784	973	16,485	17,432	0	0
Petroleum Liquids (1000 barrels)	Utility Scale Facilities	30,747	32,709	-6.0%	17,915	18,447	10,076	11,410	553	632	2,203	2,220	0	0
Petroleum Coke (1000 tons)	Utility Scale Facilities	5,094	5,157	-1.2%	2,896	3,108	745	619	17	16	1,436	1,413	0	0
Natural Gas (1000 Mcf)	Utility Scale Facilities	10,070,650	8,661,019	16.3%	4,339,405	3,595,746	4,546,945	3,911,467	115,620	108,709	1,068,680	1,045,098	0	0

Sales, Revenue, and Average Price of Electricity to Ultimate Customers for January through November									
	Total U.S. Electric Power Industry								
	Sales of Electricity to Ultimate Customers (million kWh)			Revenue from Sales of Electricity to Ultimate Customers (million dollars)			Average Price of Electricity to Ultimate Customers (cents/kWh)		
Sector	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	Percentage Change
Residential	1,288,832	1,286,408	0.2%	163,645	161,471	1.3%	12.70	12.55	1.2%
Commercial	1,250,848	1,244,088	0.5%	133,132	134,061	-0.7%	10.64	10.78	-1.3%
Industrial	881,053	917,454	-4.0%	61,118	65,483	-6.7%	6.94	7.14	-2.8%
Transportation	7,037	7,131	-1.3%	718	745	-3.7%	10.20	10.44	-2.3%
All Sectors	3,427,770	3,455,081	-0.8%	358,612	361,760	-0.9%	10.46	10.47	-0.1%

YTD = Year to Date
NM = Not meaningful due to large relative standard error.
W = Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Coal generation and consumption includes anthracite, bituminous, subbituminous, lignite, waste coal, refined coal, synthetic coal, and coal-derived synthesis gas.
Petroleum Liquids includes distillate fuel oil, residual fuel oil, jet fuel, kerosene, propane, and waste oil.
Petroleum Coke includes petroleum coke and synthesis gas derived from petroleum coke.
Natural gas includes a small amount of supplemental gaseous fuels that cannot be identified separately.
Other Gases includes blast furnace gas and other manufactured and waste gases derived from fossil fuels.
Wood and Wood-Derived Fuels include wood, black liquor, and other wood waste.
Other Biomass includes biogenic municipal solid waste, landfill gas, sludge waste, agricultural byproducts, and other biomass.
Coal stocks include anthracite, bituminous, subbituminous, lignite, refined coal, and synthetic coal; waste coal is excluded.
Sales of electricity to ultimate customers and net generation may not correspond exactly for a particular month for a variety of reasons (e.g., sales data may include imported electricity).
Net generation is presented for the calendar month while sales of electricity to ultimate customers and associated revenue accumulate from bills collected for periods of time that vary depending

Table ES2.A. Summary Statistics: Receipts and Cost of Fossil Fuels for the Electric Power Industry by Sector, Physical Units, 2015 and 2014

Total (All Sectors)										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
Coal (1000 tons)	60,857	71,000	41.33	44.54	299	387	712,351	779,135	43.11	45.73
Petroleum Liquids (1000 barrels)	2,300	2,959	54.94	99.41	177	240	22,888	25,537	70.96	124.39
Petroleum Coke (1000 tons)	419	431	45.65	52.74	11	12	4,405	4,595	53.65	56.11
Natural Gas (1000 Mcf)	750,192	628,693	2.72	4.62	736	755	9,036,790	7,763,254	3.39	5.20

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
Coal (1000 tons)	45,650	51,705	42.49	45.51	211	258	533,972	560,287	43.84	46.58
Petroleum Liquids (1000 barrels)	1,391	1,237	54.40	107.56	115	136	13,545	14,126	70.63	126.68
Petroleum Coke (1000 tons)	354	354	41.65	48.51	9	8	3,772	3,849	51.37	53.69
Natural Gas (1000 Mcf)	342,861	279,556	3.06	4.90	386	398	4,126,037	3,478,771	3.69	5.36

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
Coal (1000 tons)	14,513	18,186	36.65	40.72	67	94	170,671	206,753	39.87	42.33
Petroleum Liquids (1000 barrels)	881	1,695	55.30	93.26	50	87	8,665	11,076	70.70	121.73
Petroleum Coke (1000 tons)	59	36	W	W	1	1	458	435	68.46	70.34
Natural Gas (1000 Mcf)	346,015	289,008	2.39	4.41	302	300	4,260,583	3,623,155	3.10	5.12

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
Coal (1000 tons)	8	10	W	W	1	2	100	170	64.22	W
Petroleum Liquids (1000 barrels)	0	0	--	--	0	0	0	0	--	--
Petroleum Coke (1000 tons)	0	0	--	--	0	0	0	0	--	--
Natural Gas (1000 Mcf)	749	472	W	W	3	3	5,863	5,130	W	W

Industrial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Physical Units)		(Dollars / Physical Unit)		Number of Plants		(Physical Units)		(Dollars / Physical Unit)	
Fuel	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
Coal (1000 tons)	686	1,098	W	W	20	33	7,608	11,926	64.32	W
Petroleum Liquids (1000 barrels)	28	28	70.68	105.26	12	17	678	335	80.70	112.72
Petroleum Coke (1000 tons)	5	40	W	W	1	3	175	311	W	W
Natural Gas (1000 Mcf)	60,567	59,657	W	W	45	54	644,307	656,198	W	W

NM = Not meaningful due to large relative standard error.
W = Withheld to avoid disclosure of individual company data.
Number of Plants represents the number of plants for which receipts data were collected this month.
…. A plant using more than one fuel may be counted multiple times.
Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, synthetic coal, and coal-derived synthesis gas.
Petroleum Liquids include distillate fuel oil, residual fuel oil, jet fuel, kerosene, propane, and waste oil.
Natural Gas includes a small amount of supplemental gaseous fuels that cannot be identified separately.

Table ES2.B. Summary Statistics: Receipts and Cost of Fossil Fuels for the Electric Power Industry by Sector, Btus, 2015 and 2014

Total (All Sectors)										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
Coal	1,167,404	1,372,572	2.15	2.30	299	387	13,770,946	15,141,009	2.23	2.35
Petroleum Liquids	14,110	17,787	8.95	16.53	177	240	138,918	154,066	11.67	20.60
Petroleum Coke	11,877	12,217	1.61	1.86	11	12	125,109	130,210	1.89	1.98
Natural Gas	775,206	648,562	2.63	4.48	736	755	9,344,583	7,989,074	3.28	5.05
Fossil Fuels	1,968,597	2,051,138	2.38	3.06	928	1,002	23,379,556	23,414,359	2.67	3.32

Electric Utilities										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
Coal	881,351	1,010,559	2.20	2.33	211	258	10,386,572	11,003,837	2.25	2.37
Petroleum Liquids	8,585	7,512	8.81	17.71	115	136	82,682	85,597	11.57	20.90
Petroleum Coke	10,082	10,079	1.46	1.70	9	8	107,437	109,499	1.80	1.89
Natural Gas	353,684	288,185	2.97	4.75	386	398	4,264,424	3,573,515	3.57	5.22
Fossil Fuels	1,253,702	1,316,334	2.45	2.94	520	553	14,841,116	14,772,448	2.68	3.16

Independent Power Producers										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
Coal	270,113	338,083	1.97	2.19	67	94	3,209,255	3,875,808	2.12	2.26
Petroleum Liquids	5,354	10,107	9.09	15.62	50	87	52,101	66,408	11.72	20.27
Petroleum Coke	1,643	1,066	W	W	1	1	12,809	12,261	2.45	2.48
Natural Gas	358,246	298,147	2.31	4.27	302	300	4,408,024	3,732,483	2.99	4.97
Fossil Fuels	635,356	647,403	W	W	356	385	7,682,188	7,686,960	W	W

Commercial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
Coal	182	229	W	W	1	2	2,252	3,832	2.86	W
Petroleum Liquids	0	0	--	--	0	0	0	0	--	--
Petroleum Coke	0	0	--	--	0	0	0	0	--	--
Natural Gas	775	476	W	W	3	3	5,975	5,177	W	W
Fossil Fuels	957	705	W	W	3	3	8,226	9,009	W	W

Industrial Sector										
							Year-to-Date			
	Receipts		Cost				Receipts		Cost	
	(Billion Btu)		(Dollars / Million Btu)		Number of Plants		(Billion Btu)		(Dollars / Million Btu)	
Fuel	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
Coal	15,757	23,701	W	W	20	33	172,867	257,533	2.83	W
Petroleum Liquids	170	169	11.56	17.46	12	17	4,135	2,060	13.22	18.33
Petroleum Coke	153	1,071	W	W	1	3	4,863	8,450	W	W
Natural Gas	62,502	61,753	W	W	45	54	666,160	677,899	W	W
Fossil Fuels	78,582	86,695	W	W	49	61	848,025	945,942	W	W

NM = Not meaningful due to large relative standard error.
W = Withheld to avoid disclosure of individual company data.
Number of Plants represents the number of plants for which receipts data were collected this month.
…. The total number of fossil fuel plants is not the sum of the figures above it because a plant that receives two or more different fuels is only counted once.
Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, synthetic coal, and coal-derived synthesis gas.
Petroleum Liquids include distillate fuel oil, residual fuel oil, jet fuel, kerosene, propane, and waste oil.
Natural Gas includes a small amount of supplemental gaseous fuels that cannot be identified separately.

Table 1.1. Net Generation by Energy Source: Total (All Sectors), 2005-November 2015
(Thousand Megawatthours)

	Generation at Utility Scale Facilities												Distributed Generation	Net Generation From Utility Scale Facilities and Distributed Generation	
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total Generation at Utility Scale Facilities	Estimated Distributed Solar Photovoltaic Generation	Estimated Total Solar Photovoltaic Generation	Estimated Total Solar Generation
Annual Totals															
2005	2,012,873	99,840	22,385	760,960	13,464	781,986	270,321	550	86,779	-6,558	12,821	4,055,423	N/A	N/A	N/A
2006	1,990,511	44,460	19,706	816,441	14,177	787,219	289,246	508	96,018	-6,558	12,974	4,064,702	N/A	N/A	N/A
2007	2,016,456	49,505	16,234	896,590	13,453	806,425	247,510	612	104,626	-6,896	12,231	4,156,745	N/A	N/A	N/A
2008	1,985,801	31,917	14,325	882,981	11,707	806,208	254,831	864	125,237	-6,288	11,804	4,119,388	N/A	N/A	N/A
2009	1,755,904	25,972	12,964	920,979	10,632	798,855	273,445	891	143,388	-4,627	11,928	3,950,331	N/A	N/A	N/A
2010	1,847,290	23,337	13,724	987,697	11,313	806,968	260,203	1,212	165,961	-5,501	12,855	4,125,060	N/A	N/A	N/A
2011	1,733,430	16,086	14,096	1,013,689	11,566	790,204	319,355	1,818	192,163	-6,421	14,154	4,100,141	N/A	N/A	N/A
2012	1,514,043	13,403	9,787	1,225,894	11,898	769,331	276,240	4,327	214,006	-4,950	13,787	4,047,765	N/A	N/A	N/A
2013	1,581,115	13,820	13,344	1,124,836	12,853	789,016	268,565	9,036	244,472	-4,681	13,588	4,065,964	N/A	N/A	N/A
2014	1,581,710	18,276	11,955	1,126,609	12,022	797,166	259,367	17,691	261,522	-6,174	13,461	4,093,606	9,536	24,785	27,227
Year 2013															
January	138,105	1,733	1,042	88,559	1,144	71,406	24,829	310	21,208	-465	1,098	348,967	N/A	N/A	N/A
February	123,547	1,130	867	80,283	968	61,483	20,418	433	19,898	-320	1,020	309,728	N/A	N/A	N/A
March	130,634	990	1,007	84,725	1,070	62,947	20,534	619	22,191	-462	1,143	325,399	N/A	N/A	N/A
April	111,835	995	891	78,036	1,020	56,767	25,097	667	23,294	-292	1,024	299,333	N/A	N/A	N/A
May	119,513	1,067	1,345	83,816	1,088	62,848	28,450	753	22,502	-334	1,110	322,156	N/A	N/A	N/A
June	138,283	1,035	1,307	99,615	1,048	66,430	27,384	871	20,084	-358	1,125	356,823	N/A	N/A	N/A
July	152,867	1,458	1,354	120,771	1,148	70,539	27,255	829	17,764	-340	1,201	394,846	N/A	N/A	N/A
August	149,426	1,076	1,372	121,156	1,143	71,344	21,633	944	16,438	-465	1,217	385,286	N/A	N/A	N/A
Sept	133,110	964	1,222	102,063	1,087	65,799	16,961	949	18,043	-439	1,182	340,941	N/A	N/A	N/A
October	120,996	945	1,074	88,587	1,072	63,184	17,199	988	20,070	-373	1,185	314,925	N/A	N/A	N/A
November	120,940	989	850	84,287	1,060	64,975	17,677	824	22,206	-413	1,143	314,540	N/A	N/A	N/A
December	141,860	1,438	1,013	92,936	1,006	71,294	21,128	850	20,776	-421	1,141	353,021	N/A	N/A	N/A
Year 2014															
January	157,097	5,913	1,158	91,061	933	73,163	21,634	751	24,742	-290	1,092	377,255	530	1,227	1,281
February	143,294	1,847	916	75,942	817	62,639	17,396	835	20,166	-445	941	324,348	564	1,316	1,398
March	136,443	2,002	1,186	78,151	866	62,397	24,257	1,317	24,534	-421	1,093	331,823	769	1,904	2,086
April	109,281	911	842	76,782	854	56,385	25,440	1,487	24,989	-378	1,039	297,631	839	2,100	2,326
May	118,786	960	1,084	89,120	944	62,947	26,544	1,750	22,073	-601	1,118	324,724	927	2,384	2,676
June	137,577	889	1,131	98,468	969	68,138	25,744	1,923	22,541	-653	1,117	357,844	934	2,512	2,858
July	149,627	992	1,050	115,081	1,069	71,940	24,357	1,788	19,256	-545	1,163	385,780	975	2,501	2,763
August	148,452	1,014	1,036	122,348	1,135	71,129	19,807	1,879	17,141	-840	1,239	384,341	967	2,585	2,846
Sept	126,110	929	1,019	106,582	1,126	67,535	16,074	1,832	18,061	-542	1,159	339,887	888	2,463	2,721
October	111,296	908	609	97,683	1,082	62,391	17,159	1,717	21,002	-448	1,122	314,522	819	2,303	2,536
November	119,127	963	775	84,354	1,073	65,140	18,625	1,380	25,428	-531	1,161	317,495	673	1,904	2,052
December	124,620	947	1,149	91,038	1,153	73,363	22,329	1,032	21,590	-480	1,218	337,957	651	1,587	1,682
Year 2015															
January	132,509	1,929	1,041	101,817	1,268	74,270	24,598	1,217	22,446	-528	1,066	361,633	643	1,796	1,860
February	127,150	5,205	1,120	91,375	1,063	63,462	22,746	1,632	21,331	-441	919	335,562	705	2,174	2,337
March	108,544	1,079	728	99,139	1,044	64,547	24,869	2,239	21,981	-399	989	324,760	979	2,931	3,218
April	88,646	913	805	92,980	922	59,757	22,559	2,564	24,156	-208	1,064	294,158	1,094	3,284	3,658
May	104,774	1,020	922	101,922	998	65,833	20,187	2,598	23,796	-363	1,128	322,814	1,202	3,452	3,800
June	126,139	1,034	812	121,397	1,096	68,546	20,068	2,713	20,171	-381	1,139	362,735	1,218	3,548	3,932
July	139,601	1,205	1,142	140,900	1,288	71,412	21,066	2,750	20,948	-507	1,217	401,022	1,277	3,644	4,027
August	135,287	1,109	1,071	138,653	1,216	72,415	19,440	2,829	20,207	-623	1,235	392,840	1,260	3,694	4,090
Sept	118,489	1,023	1,037	123,248	1,217	66,466	16,206	2,350	20,356	-526	1,119	350,986	1,137	3,178	3,487
October	97,409	936	847	109,921	842	60,571	16,700	2,021	22,870	-443	1,124	312,797	1,018	2,830	3,039
November	87,789	1,016	701	101,866	848	60,264	19,381	1,889	26,362	-285	1,102	300,933	836	2,521	2,726
Year to Date															
2013	1,439,255	12,382	12,331	1,031,899	11,847	717,723	247,437	8,186	223,697	-4,260	12,447	3,712,943	N/A	N/A	N/A
2014	1,457,090	17,330	10,807	1,035,571	10,869	723,803	237,038	16,659	239,932	-5,694	12,244	3,755,649	8,885	23,198	25,544
2015	1,266,336	16,470	10,227	1,223,218	11,800	727,544	227,819	24,802	244,625	-4,702	12,102	3,760,242	11,369	33,054	36,171
Rolling 12 Months Ending in November															
2014	1,598,950	18,768	11,820	1,128,507	11,875	795,097	258,166	17,509	260,708	-6,114	13,384	4,108,671	N/A	N/A	N/A
2015	1,390,956	17,417	11,375	1,314,256	12,953	800,906	250,148	25,834	266,215	-5,182	13,320	4,098,198	12,020	34,642	37,854

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Other Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2014 and prior years are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated distributed solar photovoltaic generation and distributed solar photovoltaic capacity are based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.1.A. Net Generation from Renewable Sources: Total (All Sectors), 2005-November 2015
(Thousand Megawatthours)

	Generation at Utility Scale Facilities										Distributed Generation	Net Generation From Utility Scale Facilities and Distributed Generation	
Period	Wind	Solar Photovoltaic	Solar Thermal	Wood and Wood-Derived Fuels	Landfill Gas	Biogenic Municipal Solid Waste	Other Waste Biomass	Geothermal	Conventional Hydroelectric	Total Renewable Generation at Utility Scale Facilities	Estimated Distributed Solar Photovoltaic Generation	Estimated Total Solar Photovoltaic Generation	Estimated Total Solar Generation
Annual Totals													
2005	17,811	16	535	38,856	5,142	8,330	1,948	14,692	270,321	357,651	N/A	N/A	N/A
2006	26,589	15	493	38,762	5,677	8,478	1,944	14,568	289,246	385,772	N/A	N/A	N/A
2007	34,450	16	596	39,014	6,158	8,304	2,063	14,637	247,510	352,747	N/A	N/A	N/A
2008	55,363	76	788	37,300	7,156	8,097	2,481	14,840	254,831	380,932	N/A	N/A	N/A
2009	73,886	157	735	36,050	7,924	8,058	2,461	15,009	273,445	417,724	N/A	N/A	N/A
2010	94,652	423	789	37,172	8,377	7,927	2,613	15,219	260,203	427,376	N/A	N/A	N/A
2011	120,177	1,012	806	37,449	9,044	7,354	2,824	15,316	319,355	513,336	N/A	N/A	N/A
2012	140,822	3,451	876	37,799	9,803	7,320	2,700	15,562	276,240	494,573	N/A	N/A	N/A
2013	167,840	8,121	915	40,028	10,658	7,186	2,986	15,775	268,565	522,073	N/A	N/A	N/A
2014	181,655	15,250	2,441	42,340	11,220	7,228	3,202	15,877	259,367	538,579	9,536	24,785	27,227
Year 2013													
January	14,739	299	11	3,400	870	579	239	1,382	24,829	46,347	N/A	N/A	N/A
February	14,076	387	45	3,083	782	507	213	1,236	20,418	40,749	N/A	N/A	N/A
March	15,756	547	72	3,300	917	601	240	1,378	20,534	43,345	N/A	N/A	N/A
April	17,476	573	93	2,863	848	576	256	1,274	25,097	49,058	N/A	N/A	N/A
May	16,239	649	104	3,174	923	620	238	1,308	28,450	51,704	N/A	N/A	N/A
June	13,748	749	122	3,330	890	617	221	1,278	27,384	48,338	N/A	N/A	N/A
July	11,094	743	85	3,536	911	640	246	1,337	27,255	45,847	N/A	N/A	N/A
August	9,634	845	99	3,634	962	628	258	1,322	21,633	39,015	N/A	N/A	N/A
Sept	11,674	874	75	3,353	884	597	235	1,299	16,961	35,952	N/A	N/A	N/A
October	13,635	875	112	3,341	863	606	262	1,363	17,199	38,256	N/A	N/A	N/A
November	15,803	775	49	3,407	888	594	283	1,230	17,677	40,707	N/A	N/A	N/A
December	13,967	804	46	3,606	920	621	296	1,366	21,128	42,754	N/A	N/A	N/A
Year 2014													
January	17,911	697	54	3,626	967	584	299	1,355	21,634	47,127	530	1,227	1,281
February	14,009	752	83	3,265	930	490	267	1,206	17,396	38,397	564	1,316	1,398
March	17,736	1,135	182	3,609	961	599	291	1,338	24,257	50,108	769	1,904	2,086
April	18,636	1,261	226	3,230	957	586	267	1,314	25,440	51,916	839	2,100	2,326
May	15,601	1,457	292	3,290	944	635	270	1,332	26,544	50,366	927	2,384	2,676
June	15,799	1,578	345	3,622	943	613	271	1,293	25,744	50,208	934	2,512	2,858
July	12,187	1,525	262	3,807	1,035	646	261	1,320	24,357	45,402	975	2,501	2,763
August	10,171	1,618	261	3,761	988	647	245	1,329	19,807	38,828	967	2,585	2,846
Sept	11,520	1,574	258	3,462	932	606	234	1,308	16,074	35,968	888	2,463	2,721
October	14,508	1,484	233	3,422	854	603	269	1,345	17,159	39,878	819	2,303	2,536
November	18,867	1,232	148	3,508	820	612	258	1,362	18,625	45,432	673	1,904	2,052
December	14,711	936	95	3,737	890	609	268	1,375	22,329	44,950	651	1,587	1,682
Year 2015													
January	15,263	1,153	64	3,800	986	617	299	1,480	24,598	48,261	643	1,796	1,860
February	14,957	1,470	162	3,421	823	519	261	1,350	22,746	45,709	705	2,174	2,337
March	15,332	1,952	287	3,454	897	558	278	1,461	24,869	49,089	979	2,931	3,218
April	17,829	2,190	374	3,244	913	593	233	1,343	22,559	49,279	1,094	3,284	3,658
May	17,167	2,251	347	3,360	939	626	244	1,461	20,187	46,581	1,202	3,452	3,800
June	13,432	2,330	383	3,546	942	626	240	1,385	20,068	42,952	1,218	3,548	3,932
July	13,647	2,367	383	3,922	992	680	267	1,441	21,066	44,764	1,277	3,644	4,027
August	13,032	2,434	395	3,842	977	667	261	1,429	19,440	42,476	1,260	3,694	4,090
Sept	13,859	2,042	309	3,473	880	612	239	1,293	16,206	38,912	1,137	3,178	3,487
October	16,391	1,813	208	3,287	918	621	277	1,376	16,700	41,591	1,018	2,830	3,039
November	19,693	1,685	204	3,420	946	631	288	1,384	19,381	47,632	836	2,521	2,726
Year to Date													
2013	153,873	7,317	869	36,421	9,738	6,565	2,691	14,409	247,437	479,319	N/A	N/A	N/A
2014	166,944	14,313	2,346	38,603	10,330	6,619	2,934	14,502	237,038	493,629	8,885	23,198	25,544
2015	170,602	21,685	3,117	38,769	10,213	6,750	2,888	15,404	227,819	497,246	11,369	33,054	36,171
Rolling 12-Month Ending in November													
2014	180,911	15,118	2,392	42,209	11,250	7,241	3,229	15,868	258,166	536,383	N/A	N/A	N/A
2015	185,313	22,622	3,212	42,505	11,103	7,359	3,156	16,779	250,148	542,196	12,020	34,642	37,854

Wood and Wood-derived fuels include wood/wood waste solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids), wood waste liquids (red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids), and black liquor.
Other Waste Biomass includes sludge waste, agricultural byproducts, other biomass solids, other biomass liquids, and other biomass gases (including digester gases, methane, and other biomass gases).
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2014 and prior years are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report; Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 1.2.A. Net Generation by Energy Source: Electric Utilities, 2005-November 2015
(Thousand Megawatthours)

	Generation at Utility Scale Facilities											
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total
Annual Totals												
2005	1,484,855	58,572	11,150	238,204	10	436,296	245,553	16	4,930	-5,383	643	2,474,846
2006	1,471,421	31,269	9,634	282,088	30	425,341	261,864	15	6,573	-5,281	700	2,483,656
2007	1,490,985	33,325	7,395	313,785	141	427,555	226,734	11	8,943	-5,328	586	2,504,131
2008	1,466,395	22,206	5,918	320,190	46	424,256	229,645	17	11,291	-5,143	545	2,475,367
2009	1,322,092	18,035	7,182	349,166	96	417,275	247,198	28	14,589	-3,369	483	2,372,776
2010	1,378,028	17,258	8,807	392,616	52	424,843	236,104	101	17,826	-4,466	462	2,471,632
2011	1,301,107	11,688	9,428	414,843	29	415,298	291,413	216	21,717	-5,492	604	2,460,851
2012	1,146,480	9,892	5,664	504,958	0	394,823	252,936	639	27,378	-4,202	603	2,339,172
2013	1,188,452	9,446	9,522	501,427	798	406,114	243,040	943	31,474	-3,773	615	2,388,058
2014	1,173,073	10,696	9,147	501,414	112	419,871	238,185	1,218	33,278	-5,144	622	2,382,473
Year 2013												
January	103,536	1,018	700	39,880	71	36,748	22,563	31	2,935	-404	45	207,123
February	91,384	723	616	36,248	63	31,144	18,316	43	2,661	-270	47	180,975
March	97,675	755	687	37,661	59	31,426	18,349	65	2,781	-382	54	189,129
April	84,352	744	574	33,545	38	28,991	22,654	67	2,986	-232	42	173,761
May	90,053	785	1,035	36,891	61	32,977	25,924	81	2,755	-260	52	190,354
June	104,679	751	966	45,152	68	34,504	24,686	94	2,352	-261	43	213,033
July	114,402	950	976	52,966	66	36,733	24,705	89	2,156	-238	62	232,867
August	113,917	794	952	55,077	76	37,177	19,864	101	1,956	-417	60	229,557
Sept	99,056	664	905	45,845	75	34,459	15,422	98	2,493	-347	49	198,719
October	91,694	699	759	39,850	61	31,605	15,619	105	2,577	-307	51	182,713
November	92,146	731	609	36,703	78	32,939	15,975	81	3,004	-331	56	181,991
December	105,558	832	743	41,610	81	37,412	18,964	88	2,819	-326	55	207,837
Year 2014												
January	115,862	2,445	949	41,208	13	38,847	19,673	53	3,286	-218	47	222,165
February	104,638	1,051	706	33,600	7	32,937	15,973	61	2,698	-361	34	191,345
March	97,957	1,037	953	35,116	9	32,612	22,423	91	3,296	-355	57	193,194
April	77,724	711	572	34,890	20	30,312	22,977	98	3,274	-301	52	170,329
May	89,103	709	833	41,226	12	33,760	23,933	114	2,632	-506	49	191,866
June	104,523	650	894	44,315	5	35,898	23,790	127	2,613	-557	53	212,311
July	112,875	711	792	50,296	7	38,031	22,624	131	2,261	-445	62	227,343
August	112,568	711	778	54,553	6	37,182	18,251	130	1,894	-740	60	225,392
Sept	94,482	711	750	46,260	5	35,296	14,895	126	2,277	-461	50	194,390
October	82,991	652	457	42,360	4	32,017	15,863	124	2,826	-351	48	176,990
November	87,064	643	577	37,477	9	34,552	17,369	91	3,473	-441	55	180,869
December	93,287	666	887	40,114	15	38,428	20,415	72	2,749	-409	56	196,279
Year 2015												
January	96,617	1,161	813	45,824	26	39,377	22,779	77	3,155	-436	31	209,423
February	92,639	2,061	879	43,191	23	33,478	21,378	101	2,906	-372	33	196,317
March	80,526	702	502	45,655	21	33,328	22,844	144	3,140	-306	21	186,577
April	67,607	699	565	42,878	20	31,053	20,181	163	3,180	-146	36	166,236
May	80,806	712	691	46,368	19	35,089	18,571	168	3,058	-285	40	185,238
June	95,336	777	604	56,905	17	35,150	18,196	172	2,326	-283	35	209,236
July	105,868	864	898	64,478	NM	37,055	18,935	172	2,551	-406	56	230,485
August	101,777	818	827	62,948	21	38,482	17,952	175	2,585	-510	56	225,131
Sept	87,820	703	797	56,380	21	35,034	15,065	140	2,723	-459	49	198,272
October	72,989	686	610	49,587	12	31,886	15,298	123	3,178	-364	49	174,054
November	65,529	737	490	46,677	0	30,751	17,733	117	3,593	-218	46	165,454
Year to Date												
2013	1,082,894	8,614	8,779	459,817	717	368,702	224,076	855	28,655	-3,447	561	2,180,222
2014	1,079,786	10,029	8,260	461,300	97	381,444	217,771	1,146	30,529	-4,735	566	2,186,194
2015	947,515	9,919	7,674	560,890	195	380,683	208,931	1,552	32,395	-3,785	452	2,146,423
Rolling 12 Months Ending in November												
2014	1,185,345	10,861	9,003	502,910	178	418,856	236,735	1,234	33,348	-5,060	621	2,394,031
2015	1,040,802	10,586	8,562	601,005	NM	419,110	229,346	1,624	35,144	-4,194	507	2,342,702

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Other Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2014 and prior years are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 1.2.B Net Generation by Energy Source: Independent Power Producers, 2005-November 2015
(Thousand Megawatthours)

	Generation at Utility Scale Facilities											
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total
Annual Totals												
2005	507,199	37,096	9,664	445,625	3,767	345,690	21,486	535	51,173	-1,174	6,285	1,427,346
2006	498,316	10,396	8,409	452,329	4,223	361,877	24,390	493	58,853	-1,277	6,412	1,424,421
2007	507,406	13,645	6,942	500,967	3,901	378,869	19,109	601	65,150	-1,569	6,191	1,501,212
2008	502,442	8,021	6,737	482,182	3,154	381,952	23,451	847	84,928	-1,145	6,414	1,498,982
2009	419,031	6,306	4,288	491,839	2,962	381,579	24,308	863	100,997	-1,259	6,146	1,437,061
2010	449,709	5,117	3,497	508,774	2,915	382,126	22,351	1,105	119,851	-1,035	6,345	1,500,754
2011	416,783	3,655	3,431	511,447	2,911	374,906	26,117	1,511	140,442	-928	7,059	1,487,335
2012	354,076	2,757	1,758	627,833	2,984	374,509	20,923	3,525	156,539	-748	7,030	1,551,186
2013	379,270	3,761	1,780	527,522	3,524	382,902	22,018	7,782	181,263	-908	6,742	1,515,657
2014	395,701	6,789	1,410	531,758	3,246	377,295	19,861	16,086	196,723	-1,030	6,690	1,554,530
Year 2013												
January	33,416	635	149	40,509	313	34,658	1,938	269	15,567	-61	545	127,938
February	31,100	346	132	36,722	261	30,340	1,736	374	14,766	-50	497	116,224
March	31,794	187	151	39,104	259	31,522	1,878	531	16,778	-80	574	122,699
April	26,434	206	144	37,081	284	27,776	2,189	573	17,890	-60	528	113,045
May	28,327	228	101	39,353	306	29,871	2,194	643	17,152	-74	574	118,674
June	32,481	241	141	46,520	280	31,926	2,365	745	15,065	-97	586	130,253
July	37,252	460	167	58,993	315	33,807	2,224	710	12,812	-103	605	147,241
August	34,371	239	211	57,526	300	34,167	1,525	813	11,692	-47	587	141,386
Sept	32,990	262	141	48,349	298	31,340	1,297	819	12,955	-92	561	128,919
October	28,248	202	149	41,022	343	31,578	1,339	849	14,846	-66	558	119,069
November	27,712	212	144	39,663	289	32,037	1,494	718	16,558	-82	554	119,297
December	35,144	544	151	42,679	274	33,881	1,839	738	15,181	-95	574	130,911
Year 2014												
January	40,054	3,281	109	41,761	253	34,316	1,837	681	18,727	-72	533	141,480
February	37,580	698	123	35,129	204	29,702	1,316	753	15,039	-84	472	120,930
March	37,333	880	129	35,402	206	29,785	1,715	1,196	18,569	-66	571	125,720
April	30,554	160	141	34,693	211	26,072	2,332	1,355	19,166	-77	516	115,124
May	28,635	203	125	40,419	271	29,187	2,477	1,596	16,817	-95	569	120,205
June	31,947	193	108	46,588	252	32,240	1,850	1,755	17,275	-96	565	132,678
July	35,597	236	128	56,400	276	33,909	1,641	1,618	14,183	-100	584	144,474
August	34,761	261	123	59,357	309	33,946	1,458	1,709	12,495	-101	594	144,913
Sept	30,580	171	145	52,430	293	32,238	1,091	1,670	13,267	-81	562	132,366
October	27,332	209	51	47,693	331	30,374	1,200	1,556	15,642	-97	566	124,857
November	31,053	268	88	39,234	292	30,589	1,155	1,260	19,441	-90	578	123,869
December	30,274	228	139	42,652	349	34,935	1,787	939	16,102	-71	580	127,913
Year 2015												
January	34,848	683	129	47,672	376	34,893	1,686	1,116	16,475	-92	580	138,366
February	33,498	2,986	132	41,046	313	29,984	1,251	1,498	15,950	-69	489	127,078
March	26,960	307	141	46,179	299	31,218	1,879	2,046	16,263	-92	520	125,722
April	20,208	170	140	43,198	242	28,705	2,238	2,345	18,448	-62	540	116,171
May	23,020	252	145	48,032	292	30,743	1,500	2,373	18,217	-78	570	125,066
June	29,743	204	139	56,627	285	33,396	1,769	2,479	15,256	-98	578	140,376
July	32,608	292	140	68,035	317	34,357	2,013	2,518	15,589	-101	604	156,372
August	32,367	242	143	67,303	330	33,933	1,405	2,592	14,928	-113	609	153,740
Sept	29,622	275	140	58,916	325	31,432	1,078	2,158	15,052	-67	547	139,478
October	23,430	209	150	52,755	195	28,685	1,303	1,854	17,127	-79	561	126,189
November	21,334	225	140	47,144	211	29,513	1,535	1,730	20,176	-67	565	122,504
Year to Date												
2013	344,126	3,218	1,629	484,843	3,250	349,021	20,179	7,044	166,082	-813	6,168	1,384,746
2014	365,427	6,561	1,271	489,106	2,898	342,360	18,074	15,147	180,622	-959	6,109	1,426,616
2015	307,638	5,844	1,539	576,907	3,184	346,861	17,658	22,708	183,480	-918	6,162	1,471,063
Rolling 12 Months Ending in November												
2014	400,572	7,105	1,423	531,785	3,172	376,241	19,913	15,885	195,803	-1,054	6,683	1,557,527
2015	337,912	6,072	1,678	619,558	3,533	381,796	19,445	23,647	199,581	-989	6,742	1,598,976

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Other Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2014 and prior years are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 1.2.C. Net Generation by Energy Source: Commercial Sector, 2005-November 2015
(Thousand Megawatthours)

	Generation at Utility Scale Facilities												Distributed Generation	Net Generation From Utility Scale Facilities and Distributed Generation	
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total Generation at Utility Scale Facilities	Estimated Distributed Solar Photovoltaic Generation	Estimated Total Solar Photovoltaic Generation	Estimated Total Solar Generation
Annual Totals															
2005	1,353	368	7	4,249	0	0	86	0	1,673	0	756	8,492	N/A	N/A	N/A
2006	1,310	228	7	4,355	0	0	93	0	1,619	0	758	8,371	N/A	N/A	N/A
2007	1,371	180	9	4,257	0	0	77	0	1,614	0	764	8,273	N/A	N/A	N/A
2008	1,261	136	6	4,188	0	0	60	0	1,555	0	720	7,926	N/A	N/A	N/A
2009	1,096	157	5	4,225	0	0	71	0	1,769	0	842	8,165	N/A	N/A	N/A
2010	1,111	117	7	4,725	3	0	80	5	1,709	0	834	8,592	N/A	N/A	N/A
2011	1,049	86	3	5,487	3	0	26	84	2,392	0	950	10,080	N/A	N/A	N/A
2012	883	191	6	6,603	0	0	28	148	2,397	0	1,046	11,301	N/A	N/A	N/A
2013	839	118	5	7,154	0	0	44	294	2,662	0	1,118	12,234	N/A	N/A	N/A
2014	595	247	9	7,227	0	0	38	371	2,862	0	1,171	12,520	4,349	4,720	4,720
Year 2013															
January	89	19	1	562	0	0	4	9	212	0	85	981	N/A	N/A	N/A
February	81	14	1	512	0	0	4	15	187	0	74	888	N/A	N/A	N/A
March	78	7	1	574	0	0	4	22	220	0	90	995	N/A	N/A	N/A
April	63	7	0	541	0	0	4	25	210	0	95	946	N/A	N/A	N/A
May	69	8	0	546	0	0	5	27	229	0	97	981	N/A	N/A	N/A
June	75	7	0	593	0	0	5	30	223	0	93	1,026	N/A	N/A	N/A
July	76	13	0	779	0	0	5	28	235	0	100	1,236	N/A	N/A	N/A
August	71	7	1	697	0	0	4	29	238	0	101	1,147	N/A	N/A	N/A
Sept	60	6	1	652	0	0	3	30	222	0	99	1,073	N/A	N/A	N/A
October	49	7	1	550	0	0	2	32	226	0	96	961	N/A	N/A	N/A
November	60	8	0	525	0	0	2	24	223	0	92	936	N/A	N/A	N/A
December	68	16	1	623	0	0	3	23	236	0	95	1,064	N/A	N/A	N/A
Year 2014															
January	76	102	1	651	0	0	4	16	264	0	104	1,218	253	269	269
February	79	37	1	533	0	0	3	20	216	0	71	961	271	292	292
March	66	30	1	529	0	0	4	29	230	0	84	972	364	394	394
April	47	9	1	509	0	0	4	33	229	0	96	927	394	427	427
May	39	8	0	557	0	0	4	38	238	0	102	986	433	471	471
June	42	8	0	605	0	0	3	39	245	0	99	1,041	431	470	470
July	50	9	0	701	0	0	3	38	263	0	109	1,173	447	485	485
August	42	7	1	722	0	0	3	39	256	0	110	1,181	440	479	479
Sept	36	8	1	657	0	0	3	35	243	0	104	1,086	396	432	432
October	31	9	1	601	0	0	2	36	230	0	97	1,008	355	390	390
November	44	9	1	560	0	0	2	28	218	0	98	960	287	314	314
December	45	10	1	602	0	0	2	20	230	0	97	1,007	278	298	298
Year 2015															
January	53	26	1	619	0	0	NM	23	244	0	92	1,062	286	310	310
February	59	79	1	533	0	0	NM	32	215	0	83	1,005	312	344	344
March	51	12	1	616	0	0	NM	46	243	0	95	1,067	420	466	466
April	33	8	1	539	0	0	NM	54	227	0	101	967	463	516	516
May	35	11	0	655	0	0	NM	55	236	0	104	1,099	505	560	560
June	42	NM	0	652	0	0	NM	60	229	0	103	1,100	505	565	565
July	44	13	0	719	0	0	NM	58	248	0	109	1,195	528	586	586
August	35	12	1	732	0	0	NM	60	231	0	109	1,183	510	569	569
Sept	32	9	1	675	0	0	NM	50	233	0	110	1,112	457	507	507
October	34	7	1	638	0	0	NM	42	236	0	94	1,056	402	444	444
November	33	6	1	650	0	0	NM	40	245	0	100	1,079	326	366	366
Year to Date															
2013	771	103	5	6,532	0	0	41	271	2,426	0	1,023	11,170	N/A	N/A	N/A
2014	551	236	8	6,625	0	0	36	350	2,632	0	1,074	11,512	4,071	4,422	4,422
2015	451	193	8	7,029	0	0	NM	519	2,588	0	1,101	11,924	4,714	5,234	5,234
Rolling 12 Months Ending in November															
2014	618	252	8	7,248	0	0	39	373	2,868	0	1,169	12,576	N/A	N/A	N/A
2015	496	NM	9	7,631	0	0	NM	540	2,817	0	1,198	12,931	4,992	5,532	5,532

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Other Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2014 and prior years are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated distributed solar photovoltaic generation and distributed solar photovoltaic capacity are based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.2.D. Net Generation by Energy Source: Industrial Sector, 2005-November 2015
(Thousand Megawatthours)

	Generation at Utility Scale Facilities												Distributed Generation	Net Generation From Utility Scale Facilities and Distributed Generation	
Period	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gas	Nuclear	Hydroelectric Conventional	Solar	Renewable Sources Excluding Hydroelectric and Solar	Hydroelectric Pumped Storage	Other	Total Generation at Utility Scale Facilities	Estimated Distributed Solar Photovoltaic Generation	Estimated Total Solar Photovoltaic Generation	Estimated Total Solar Generation
Annual Totals															
2005	19,466	3,804	1,564	72,882	9,687	0	3,195	0	29,003	0	5,137	144,739	N/A	N/A	N/A
2006	19,464	2,567	1,656	77,669	9,923	0	2,899	0	28,972	0	5,103	148,254	N/A	N/A	N/A
2007	16,694	2,355	1,889	77,580	9,411	0	1,590	0	28,919	0	4,690	143,128	N/A	N/A	N/A
2008	15,703	1,555	1,664	76,421	8,507	0	1,676	0	27,462	0	4,125	137,113	N/A	N/A	N/A
2009	13,686	1,474	1,489	75,748	7,574	0	1,868	0	26,033	0	4,457	132,329	N/A	N/A	N/A
2010	18,441	844	1,414	81,583	8,343	0	1,668	2	26,574	0	5,214	144,082	N/A	N/A	N/A
2011	14,490	657	1,234	81,911	8,624	0	1,799	7	27,612	0	5,541	141,875	N/A	N/A	N/A
2012	12,603	563	2,359	86,500	8,913	0	2,353	14	27,693	0	5,108	146,107	N/A	N/A	N/A
2013	12,554	495	2,036	88,733	8,531	0	3,463	17	29,074	0	5,113	150,015	N/A	N/A	N/A
2014	12,341	544	1,389	86,209	8,664	0	1,282	16	28,659	0	4,978	144,083	943	960	960
Year 2013															
January	1,064	61	192	7,608	759	0	324	1	2,493	0	423	12,924	N/A	N/A	N/A
February	983	47	118	6,801	644	0	363	1	2,284	0	402	11,642	N/A	N/A	N/A
March	1,086	42	169	7,387	752	0	302	1	2,411	0	425	12,576	N/A	N/A	N/A
April	986	37	173	6,869	698	0	250	2	2,208	0	358	11,580	N/A	N/A	N/A
May	1,063	46	209	7,025	721	0	328	2	2,366	0	387	12,147	N/A	N/A	N/A
June	1,048	36	201	7,351	699	0	328	2	2,444	0	402	12,511	N/A	N/A	N/A
July	1,138	36	211	8,033	767	0	320	2	2,561	0	434	13,502	N/A	N/A	N/A
August	1,066	36	208	7,856	767	0	240	2	2,551	0	468	13,195	N/A	N/A	N/A
Sept	1,004	33	175	7,218	714	0	239	2	2,373	0	473	12,230	N/A	N/A	N/A
October	1,005	37	166	7,165	667	0	239	2	2,421	0	481	12,182	N/A	N/A	N/A
November	1,022	37	98	7,395	694	0	206	1	2,421	0	442	12,317	N/A	N/A	N/A
December	1,089	47	118	8,025	650	0	322	1	2,540	0	417	13,210	N/A	N/A	N/A
Year 2014															
January	1,105	85	100	7,441	667	0	120	1	2,466	0	408	12,391	51	52	52
February	998	61	86	6,680	606	0	104	1	2,212	0	363	11,112	54	55	55
March	1,087	56	103	7,105	651	0	114	1	2,439	0	382	11,937	77	78	78
April	955	32	128	6,690	624	0	127	2	2,319	0	375	11,251	84	85	85
May	1,009	40	126	6,918	662	0	130	2	2,385	0	397	11,667	92	94	94
June	1,065	37	130	6,960	711	0	100	2	2,409	0	400	11,814	93	95	95
July	1,105	37	129	7,685	786	0	89	2	2,549	0	408	12,790	97	99	99
August	1,081	35	134	7,716	820	0	96	2	2,496	0	476	12,856	96	98	98
Sept	1,013	39	123	7,234	828	0	86	2	2,275	0	444	12,044	88	89	89
October	942	39	101	7,028	748	0	93	1	2,303	0	411	11,667	83	84	84
November	966	42	108	7,083	772	0	99	1	2,297	0	429	11,797	67	68	68
December	1,015	42	121	7,670	790	0	125	1	2,510	0	484	12,757	61	62	62
Year 2015															
January	991	59	98	7,701	867	0	130	NM	2,572	0	363	12,781	66	NM	NM
February	954	79	107	6,606	726	0	113	NM	2,260	0	314	11,162	70	NM	NM
March	1,007	59	84	6,689	724	0	142	2	2,335	0	353	11,394	99	101	101
April	797	36	99	6,365	660	0	136	3	2,302	0	387	10,785	107	110	110
May	912	45	86	6,867	687	0	114	NM	2,285	0	415	11,412	119	NM	NM
June	1,018	43	70	7,213	794	0	99	NM	2,359	0	424	12,023	118	NM	NM
July	1,082	36	104	7,668	956	0	113	NM	2,560	0	448	12,970	123	NM	NM
August	1,108	37	100	7,670	865	0	79	3	2,463	0	461	12,787	120	123	123
Sept	1,015	37	99	7,278	870	0	61	2	2,349	0	413	12,123	110	112	112
October	955	34	86	6,941	634	0	97	NM	2,329	0	420	11,498	101	NM	NM
November	893	49	NM	7,395	637	0	109	NM	2,348	0	392	11,896	81	NM	NM
Year to Date															
2013	11,464	447	1,919	80,708	7,880	0	3,141	16	26,534	0	4,696	136,805	N/A	N/A	N/A
2014	11,326	503	1,268	78,540	7,874	0	1,157	16	26,149	0	4,494	131,326	882	897	897
2015	10,732	514	1,005	78,392	8,421	0	1,194	23	26,162	0	4,389	130,833	1,114	1,138	1,138
Rolling 12 Months Ending in November															
2014	12,415	550	1,386	86,564	8,525	0	1,480	17	28,689	0	4,911	144,536	N/A	N/A	N/A
2015	11,747	556	NM	86,062	9,210	0	1,319	NM	28,672	0	4,873	143,589	1,176	NM	NM

Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
Other Gas includes blast furnace gas and other manufactured and waste gases derived from fossil fuels. Prior to 2011, Other Gas included propane and synthesis gases.
See the Technical Notes for fuel conversion factors.
Other Renewable Sources include wood, black liquor, other wood waste, biogenic municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind.
Other includes non-biogenic municipal solid waste, batteries, hydrogen, purchased steam, sulfur, tire-derived fuel, and other miscellaneous energy sources.
Notes: Beginning with 2001 data, non-biogenic municipal solid waste and tire-derived fuels are reclassified as non-renewable energy sources and included in Other. Biogenic municipal solid waste is included in Other Renewable Sources.
See Glossary for definitions. Values for 2014 and prior years are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report; and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report;
Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.
Estimated distributed solar photovoltaic generation and distributed solar photovoltaic capacity are based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.2.E. Net Generation by Energy Source: Residential Sector, 2005-November 2015 (Thousand Megawatthours)

	Distributed Generation
Period	**Estimated Distributed Solar Photovoltaic Generation**
Annual Totals	
2014	4,243
Year 2014	
January	226
February	238
March	328
April	361
May	402
June	410
July	431
August	431
Sept	404
October	382
November	319
December	311
Year 2015	
January	291
February	322
March	461
April	524
May	578
June	595
July	625
August	631
Sept	570
October	514
November	429
Year to Date	
2014	3,932
2015	5,540
Rolling 12 Months Ending in November	
2014	N/A
2015	5,852

See Glossary for definitions. Values for 2014 and prior years are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding. NM=Not meaningful due to large standard error. W=Withheld to avoid disclosure of individual company data.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Sources:
Estimated distributed solar photovoltaic generation and distributed solar photovoltaic capacity are based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.3.A. Utility Scale Facility Net Generation
by State, by Sector, November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	8,154	8,203	-0.6%	189	308	7,616	7,514	106	107	242	274
Connecticut	2,901	2,519	15.2%	NM	3	2,829	2,440	32	36	37	40
Maine	1,060	1,058	0.2%	NM	0	856	819	17	17	187	222
Massachusetts	2,133	2,125	0.4%	42	28	2,029	2,042	47	45	NM	10
New Hampshire	1,290	1,607	-19.7%	61	208	1,223	1,393	NM	4	NM	2
Rhode Island	583	367	59.0%	1	0	577	362	NM	NM	0	0
Vermont	185	527	-64.8%	82	70	103	457	NM	0	0	0
Middle Atlantic	33,040	33,423	-1.1%	2,873	2,828	29,626	30,050	195	176	347	370
New Jersey	5,620	5,367	4.7%	5	-27	5,520	5,291	55	49	NM	55
New York	11,017	11,175	-1.4%	2,860	2,851	7,983	8,156	102	91	73	77
Pennsylvania	16,403	16,880	-2.8%	NM	3	16,123	16,603	38	35	233	239
East North Central	44,502	50,297	-11.5%	18,976	21,970	24,572	27,341	191	155	763	831
Illinois	15,221	17,667	-13.8%	613	871	14,350	16,523	42	47	216	226
Indiana	7,531	8,863	-15.0%	5,918	7,455	1,369	1,145	23	15	222	247
Michigan	9,017	8,332	8.2%	6,536	6,401	2,267	1,735	95	75	120	122
Ohio	7,871	10,597	-25.7%	2,216	3,660	5,579	6,864	NM	5	64	69
Wisconsin	4,862	4,838	0.5%	3,693	3,582	1,006	1,075	NM	13	141	168
West North Central	24,423	27,684	-11.8%	19,765	23,252	4,260	4,068	50	41	348	323
Iowa	4,021	4,708	-14.6%	2,615	3,661	1,215	870	NM	19	173	158
Kansas	3,196	4,161	-23.2%	2,207	3,171	977	988	0	0	NM	1
Minnesota	4,551	4,844	-6.1%	3,413	3,706	999	1,001	NM	14	115	123
Missouri	5,849	6,090	-4.0%	5,631	5,847	209	232	7	7	NM	4
Nebraska	3,008	3,408	-11.7%	2,683	3,033	292	347	2	1	31	26
North Dakota	2,954	3,408	-13.3%	2,564	2,942	376	456	NM	0	NM	10
South Dakota	844	1,064	-20.7%	652	890	192	174	NM	0	0	0
South Atlantic	56,357	59,889	-5.9%	46,370	50,622	8,390	7,701	116	81	1,480	1,484
Delaware	429	640	-32.9%	NM	4	335	543	NM	1	90	93
District of Columbia	NM	5	NM	0	0	0	0	NM	5	0	0
Florida	17,934	16,438	9.1%	16,235	15,195	1,283	833	NM	5	409	405
Georgia	9,084	9,750	-6.8%	7,547	8,361	1,129	996	3	2	405	391
Maryland	2,501	2,583	-3.2%	2	1	2,440	2,529	41	23	18	30
North Carolina	8,611	10,175	-15.4%	8,050	9,482	397	546	19	6	144	141
South Carolina	6,879	7,457	-7.8%	6,525	7,169	241	152	NM	0	113	136
Virginia	5,618	6,175	-9.0%	4,019	5,307	1,354	646	39	39	206	184
West Virginia	5,296	6,666	-20.6%	3,989	5,105	1,212	1,455	0	0	94	105
East South Central	26,906	29,252	-8.0%	22,201	24,650	3,964	3,925	NM	14	728	664
Alabama	11,643	12,044	-3.3%	8,349	8,349	2,958	3,403	0	0	336	292
Kentucky	5,306	7,334	-27.7%	5,247	7,278	6	1	0	0	53	54
Mississippi	4,992	3,991	25.1%	3,847	3,337	981	506	NM	2	162	147
Tennessee	4,966	5,883	-15.6%	4,759	5,685	20	15	NM	12	177	171
West South Central	49,199	50,172	-1.9%	15,521	17,484	27,359	26,348	83	78	6,236	6,261
Arkansas	3,137	4,662	-32.7%	2,228	3,897	748	600	NM	1	160	165
Louisiana	7,983	8,182	-2.4%	4,462	4,460	822	993	NM	15	2,684	2,714
Oklahoma	6,068	5,044	20.3%	3,418	3,399	2,587	1,574	NM	0	62	70
Texas	32,011	32,284	-0.8%	5,414	5,728	23,202	23,181	65	63	3,331	3,312
Mountain	28,672	28,850	-0.6%	22,339	22,651	6,046	5,942	40	36	247	222
Arizona	7,958	8,065	-1.3%	6,683	6,889	1,263	1,166	12	11	0	0
Colorado	4,204	4,236	-0.7%	3,341	3,105	856	1,123	NM	2	NM	6
Idaho	1,095	924	18.6%	578	498	472	390	0	1	44	35
Montana	2,433	2,700	-9.9%	729	914	1,703	1,785	0	0	NM	2
Nevada	2,923	2,722	7.4%	2,218	2,025	678	670	11	8	16	19
New Mexico	2,758	2,300	19.9%	2,127	2,003	622	289	9	8	1	0
Utah	3,210	3,731	-14.0%	3,008	3,520	147	168	NM	7	48	36
Wyoming	4,090	4,172	-2.0%	3,654	3,697	304	351	0	0	132	125
Pacific Contiguous	28,327	28,364	-0.1%	16,333	16,210	10,308	10,613	242	225	1,445	1,316
California	14,185	14,436	-1.7%	4,942	5,056	7,747	8,024	229	213	1,268	1,142
Oregon	5,168	5,119	0.9%	3,598	3,650	1,506	1,396	NM	10	54	63
Washington	8,974	8,809	1.9%	7,793	7,504	1,055	1,192	NM	2	123	110
Pacific Noncontiguous	1,354	1,361	-0.5%	886	894	363	369	45	46	60	51
Alaska	501	526	-4.8%	453	481	22	20	15	15	NM	10
Hawaii	852	835	2.1%	433	413	341	349	30	31	48	41
U.S. Total	300,933	317,495	-5.2%	165,454	180,869	122,504	123,869	1,079	960	11,896	11,797

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.3.B. Utility Scale Facility Net Generation

by State, by Sector, Year-to-Date through November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	102,277	102,069	0.2%	3,168	3,425	94,892	93,771	1,292	1,276	2,925	3,597
Connecticut	34,255	30,464	12.4%	NM	51	33,388	29,588	393	398	432	427
Maine	11,087	12,197	-9.1%	NM	1	8,575	9,007	207	191	2,304	2,999
Massachusetts	29,992	29,253	2.5%	673	643	28,598	27,911	559	556	161	143
New Hampshire	18,503	17,774	4.1%	1,619	1,932	16,791	15,750	64	64	29	28
Rhode Island	6,562	5,869	11.8%	12	11	6,486	5,796	64	63	0	0
Vermont	1,879	6,512	-71.1%	823	788	1,052	5,720	NM	3	0	0
Middle Atlantic	396,238	389,054	1.8%	32,268	31,084	357,688	351,707	2,184	2,003	4,098	4,260
New Jersey	68,749	61,843	11.2%	19	-109	67,556	60,775	628	553	547	626
New York	128,663	125,533	2.5%	32,160	31,112	94,500	92,487	1,171	1,071	831	864
Pennsylvania	198,826	201,678	-1.4%	88	82	195,632	198,445	385	380	2,720	2,771
East North Central	554,542	567,353	-2.3%	250,947	263,092	292,331	293,329	2,026	1,844	9,238	9,087
Illinois	178,420	184,198	-3.1%	8,817	9,551	166,605	171,610	502	489	2,495	2,548
Indiana	96,192	106,196	-9.4%	81,663	93,156	11,368	10,092	228	195	2,933	2,753
Michigan	104,906	97,664	7.4%	77,921	77,078	24,619	18,474	1,010	893	1,356	1,218
Ohio	113,963	123,422	-7.7%	34,479	40,010	78,596	82,517	105	102	782	794
Wisconsin	61,061	55,872	9.3%	48,065	43,297	11,143	10,636	181	165	1,672	1,774
West North Central	302,990	308,928	-1.9%	258,907	266,196	39,584	38,484	591	576	3,908	3,672
Iowa	52,512	51,482	2.0%	38,978	38,707	11,359	10,666	206	205	1,970	1,904
Kansas	42,048	45,784	-8.2%	32,978	36,487	8,970	9,260	0	0	100	37
Minnesota	52,373	51,587	1.5%	41,876	41,482	8,973	8,642	216	198	1,308	1,265
Missouri	77,223	80,288	-3.8%	74,786	77,915	2,253	2,170	155	157	29	46
Nebraska	35,952	36,139	-0.5%	32,932	33,573	2,661	2,240	15	16	345	310
North Dakota	33,892	33,502	1.2%	30,060	29,402	3,676	3,990	NM	0	156	109
South Dakota	8,989	10,147	-11.4%	7,298	8,630	1,691	1,517	NM	0	0	0
South Atlantic	730,328	722,604	1.1%	609,253	607,720	103,138	97,188	1,261	1,175	16,676	16,521
Delaware	7,301	7,060	3.4%	NM	45	6,140	6,212	7	6	1,098	796
District of Columbia	64	62	1.9%	0	0	0	0	64	62	0	0
Florida	218,999	212,631	3.0%	201,627	195,750	12,503	12,132	60	62	4,809	4,687
Georgia	118,861	116,268	2.2%	98,362	101,080	16,125	10,904	31	28	4,344	4,256
Maryland	34,074	34,993	-2.6%	23	20	33,357	34,260	444	388	250	325
North Carolina	118,632	117,714	0.8%	109,723	109,686	7,221	6,158	222	186	1,466	1,684
South Carolina	89,049	89,090	0.0%	85,552	85,743	1,942	1,588	NM	6	1,545	1,753
Virginia	76,852	70,748	8.6%	61,455	57,510	12,840	10,794	425	438	2,132	2,005
West Virginia	66,496	74,039	-10.2%	52,455	57,886	13,009	15,139	0	0	1,032	1,014
East South Central	346,769	343,051	1.1%	292,067	299,169	46,359	35,977	139	144	8,203	7,761
Alabama	140,472	136,554	2.9%	99,592	102,922	36,935	30,134	0	0	3,944	3,498
Kentucky	76,213	82,887	-8.1%	75,003	82,177	662	156	0	0	547	554
Mississippi	59,925	50,417	18.9%	49,652	43,181	8,544	5,533	NM	19	1,709	1,684
Tennessee	70,160	73,194	-4.1%	67,819	70,889	219	153	120	125	2,002	2,026
West South Central	635,280	620,627	2.4%	224,578	231,622	342,604	321,178	908	857	67,192	66,971
Arkansas	51,832	57,032	-9.1%	36,656	44,823	13,505	10,589	NM	7	1,663	1,613
Louisiana	98,685	95,759	3.1%	60,638	53,722	10,193	13,342	171	176	27,682	28,519
Oklahoma	69,698	64,582	7.9%	44,701	44,239	24,197	19,574	NM	0	791	768
Texas	415,065	403,255	2.9%	82,582	88,837	294,709	277,673	719	674	37,055	36,070
Mountain	341,272	342,657	-0.4%	271,917	275,032	65,863	64,117	450	446	3,043	3,062
Arizona	104,337	103,881	0.4%	86,570	87,335	17,634	16,397	133	149	0	0
Colorado	47,608	49,293	-3.4%	38,252	39,644	9,262	9,559	34	25	59	65
Idaho	13,874	14,175	-2.1%	8,961	9,048	4,458	4,620	0	4	455	503
Montana	26,955	27,418	-1.7%	9,824	11,219	17,114	16,180	0	0	17	20
Nevada	35,507	33,286	6.7%	27,913	25,735	7,244	7,243	124	88	226	221
New Mexico	29,798	29,310	1.7%	23,751	23,809	5,916	5,368	90	103	40	30
Utah	38,468	39,952	-3.7%	35,755	37,095	1,760	1,793	68	77	884	987
Wyoming	44,726	45,341	-1.4%	40,890	41,147	2,474	2,957	0	0	1,362	1,236
Pacific Contiguous	335,941	344,459	-2.5%	193,386	198,812	124,923	127,088	2,580	2,684	15,051	15,875
California	182,535	183,713	-0.6%	66,098	65,308	100,836	101,914	2,448	2,569	13,153	13,922
Oregon	53,221	54,563	-2.5%	38,298	40,268	14,243	13,568	99	88	582	639
Washington	100,184	106,183	-5.7%	88,990	93,235	9,844	11,607	33	27	1,317	1,314
Pacific Noncontiguous	14,605	14,846	-1.6%	9,931	10,043	3,681	3,777	493	506	500	520
Alaska	5,509	5,470	0.7%	5,017	4,984	225	223	149	156	119	106
Hawaii	9,095	9,377	-3.0%	4,914	5,060	3,457	3,553	344	350	381	413
U.S. Total	3,760,242	3,755,649	0.1%	2,146,423	2,186,194	1,471,063	1,426,616	11,924	11,512	130,833	131,326

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.4.A. Utility Scale Facility Net Generation from Coal by State, by Sector, November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	220	544	-59.7%	8	153	209	388	0	0	NM	3
Connecticut	0	110	-100.0%	0	0	0	110	0	0	0	0
Maine	4	4	12.3%	0	0	4	3	0	0	1	1
Massachusetts	208	278	-25.3%	0	0	205	275	0	0	NM	2
New Hampshire	8	153	-95.0%	8	153	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	4,427	6,256	-29.2%	0	0	4,363	6,189	NM	1	64	65
New Jersey	105	137	-23.3%	0	0	105	137	0	0	0	0
New York	82	167	-50.8%	0	0	59	143	0	0	23	24
Pennsylvania	4,240	5,952	-28.8%	0	0	4,199	5,909	NM	1	41	41
East North Central	20,390	28,576	-28.6%	13,278	16,828	6,885	11,490	6	12	220	246
Illinois	4,937	7,699	-35.9%	575	830	4,223	6,717	NM	7	138	145
Indiana	5,101	6,914	-26.2%	4,621	6,424	474	484	4	3	NM	1
Michigan	4,189	3,967	5.6%	4,148	3,919	33	32	1	1	NM	14
Ohio	3,671	7,346	-50.0%	1,501	3,069	2,154	4,256	NM	NM	16	21
Wisconsin	2,491	2,650	-6.0%	2,434	2,585	0	0	NM	0	58	64
West North Central	13,094	17,206	-23.9%	12,825	16,939	NM	2	12	19	254	246
Iowa	1,382	2,477	-44.2%	1,220	2,322	0	0	NM	12	154	143
Kansas	1,162	2,122	-45.3%	1,162	2,122	0	0	0	0	0	0
Minnesota	2,045	2,457	-16.7%	1,984	2,390	0	0	0	0	61	66
Missouri	4,464	5,401	-17.3%	4,456	5,388	NM	2	5	7	NM	4
Nebraska	1,657	2,018	-17.9%	1,627	1,992	0	0	0	0	31	26
North Dakota	2,201	2,532	-13.0%	2,194	2,525	0	0	0	0	NM	6
South Dakota	182	199	-8.5%	182	199	0	0	0	0	0	0
South Atlantic	14,337	22,085	-35.1%	12,542	19,401	1,632	2,488	5	2	158	194
Delaware	21	-1	NM	0	0	21	-1	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,916	4,191	-30.4%	2,889	4,053	6	122	0	0	NM	17
Georgia	1,369	2,637	-48.1%	1,350	2,607	0	0	0	0	NM	30
Maryland	599	1,050	-43.0%	0	0	592	1,037	0	0	6	13
North Carolina	1,893	3,922	-51.7%	1,852	3,862	NM	33	5	0	NM	27
South Carolina	1,341	2,183	-38.6%	1,332	2,173	0	0	0	0	9	11
Virginia	1,266	1,768	-28.4%	1,185	1,658	45	74	NM	2	35	35
West Virginia	4,932	6,335	-22.1%	3,934	5,048	954	1,224	0	0	44	63
East South Central	8,819	11,909	-25.9%	8,426	11,720	299	96	0	1	93	91
Alabama	2,611	2,971	-12.1%	2,597	2,962	0	0	0	0	NM	9
Kentucky	4,267	6,711	-36.4%	4,267	6,711	0	0	0	0	0	0
Mississippi	372	485	-23.3%	72	388	299	96	0	0	0	0
Tennessee	1,569	1,742	-9.9%	1,490	1,659	0	0	0	1	80	82
West South Central	11,528	16,076	-28.3%	5,803	8,174	5,700	7,867	0	0	NM	35
Arkansas	1,101	2,520	-56.3%	815	2,142	282	374	0	0	4	5
Louisiana	1,006	1,270	-20.8%	694	513	312	757	0	0	0	0
Oklahoma	1,463	2,106	-30.5%	1,259	1,905	183	170	0	0	NM	31
Texas	7,958	10,181	-21.8%	3,035	3,614	4,922	6,567	0	0	0	0
Mountain	13,948	15,230	-8.4%	12,306	13,488	1,599	1,692	0	0	44	49
Arizona	2,522	3,196	-21.1%	2,522	3,196	0	0	0	0	0	0
Colorado	2,146	2,283	-6.0%	2,140	2,274	NM	9	0	0	0	1
Idaho	NM	8	NM	0	0	0	0	0	0	NM	8
Montana	1,461	1,517	-3.7%	NM	27	1,438	1,489	0	0	NM	1
Nevada	165	401	-58.8%	95	279	70	121	0	0	0	0
New Mexico	1,779	1,409	26.3%	1,779	1,409	0	0	0	0	0	0
Utah	2,366	2,879	-17.8%	2,340	2,843	NM	37	0	0	0	0
Wyoming	3,505	3,537	-0.9%	3,409	3,460	NM	37	0	0	37	40
Pacific Contiguous	836	1,072	-22.1%	302	345	504	697	0	0	30	30
California	26	27	-3.6%	0	0	0	0	0	0	26	27
Oregon	302	345	-12.5%	302	345	0	0	0	0	0	0
Washington	508	700	-27.5%	0	0	504	697	0	0	4	3
Pacific Noncontiguous	191	172	10.5%	39	15	141	143	9	9	NM	5
Alaska	65	40	60.5%	39	15	17	16	9	9	0	0
Hawaii	126	132	-4.8%	0	0	124	127	0	0	NM	5
U.S. Total	87,789	119,127	-26.3%	65,529	87,064	21,334	31,053	33	44	893	966

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.4.B. Utility Scale Facility Net Generation from Coal

by State, by Sector, Year-to-Date through November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	3,706	4,733	-21.7%	919	1,219	2,737	3,468	0	0	50	46
Connecticut	604	814	-25.8%	0	0	604	814	0	0	0	0
Maine	86	70	22.1%	0	0	60	46	0	0	26	25
Massachusetts	2,098	2,630	-20.2%	0	0	2,074	2,608	0	0	24	21
New Hampshire	919	1,219	-24.6%	919	1,219	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	65,726	79,410	-17.2%	0	0	65,001	78,625	NM	15	719	770
New Jersey	1,657	2,398	-30.9%	0	0	1,657	2,398	0	0	0	0
New York	2,305	4,405	-47.7%	0	0	2,024	4,120	0	0	281	286
Pennsylvania	61,765	72,607	-14.9%	0	0	61,320	72,107	NM	15	438	484
East North Central	293,896	336,063	-12.5%	186,165	209,654	105,092	123,473	136	173	2,503	2,763
Illinois	69,331	79,585	-12.9%	8,129	9,090	59,654	68,867	32	34	1,516	1,593
Indiana	73,250	90,032	-18.6%	68,183	84,983	5,013	4,975	39	56	15	18
Michigan	49,029	48,927	0.2%	48,504	48,351	363	338	62	79	100	160
Ohio	67,901	83,229	-18.4%	27,660	33,719	40,062	49,293	NM	NM	178	215
Wisconsin	34,385	34,290	0.3%	33,690	33,512	0	0	NM	1	694	777
West North Central	184,249	198,481	-7.2%	181,203	195,503	27	28	147	208	2,872	2,742
Iowa	28,368	30,262	-6.3%	26,528	28,442	0	0	94	130	1,745	1,690
Kansas	23,094	26,629	-13.3%	23,094	26,629	0	0	0	0	0	0
Minnesota	23,217	25,093	-7.5%	22,533	24,436	0	0	NM	8	683	648
Missouri	60,627	66,100	-8.3%	60,525	65,962	27	28	52	69	23	41
Nebraska	22,178	22,951	-3.4%	21,835	22,641	0	0	0	0	343	310
North Dakota	25,462	24,996	1.9%	25,385	24,942	0	0	0	0	77	53
South Dakota	1,303	2,451	-46.8%	1,303	2,451	0	0	0	0	0	0
South Atlantic	228,961	270,909	-15.5%	199,953	234,802	27,092	33,900	68	43	1,848	2,165
Delaware	598	856	-30.2%	0	0	598	856	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	40,072	47,781	-16.1%	38,739	46,052	1,092	1,489	0	0	241	239
Georgia	35,488	42,714	-16.9%	35,262	42,297	0	0	0	0	226	418
Maryland	13,413	16,548	-18.9%	0	0	13,307	16,400	NM	2	104	147
North Carolina	38,981	46,345	-15.9%	37,961	45,200	741	847	51	20	228	277
South Carolina	21,516	26,787	-19.7%	21,371	26,633	0	0	0	0	145	154
Virginia	16,211	19,062	-15.0%	14,768	17,387	1,027	1,239	NM	21	400	416
West Virginia	62,682	70,815	-11.5%	51,852	57,233	10,326	13,068	0	0	504	514
East South Central	141,719	163,990	-13.6%	137,769	160,644	2,891	2,217	0	11	1,059	1,118
Alabama	39,066	43,993	-11.2%	38,934	43,872	0	0	0	0	133	122
Kentucky	67,153	76,210	-11.9%	67,153	76,210	0	0	0	0	0	0
Mississippi	6,229	10,224	-39.1%	3,338	8,007	2,891	2,217	0	0	0	0
Tennessee	29,271	33,562	-12.8%	28,344	32,555	0	0	0	11	926	997
West South Central	172,466	214,017	-19.4%	89,459	114,279	82,597	99,331	0	0	410	407
Arkansas	20,683	31,047	-33.4%	16,836	27,374	3,796	3,619	0	0	51	53
Louisiana	14,233	17,666	-19.4%	8,404	7,570	5,829	10,096	0	0	0	0
Oklahoma	23,567	27,646	-14.8%	21,521	25,541	1,686	1,750	0	0	359	354
Texas	113,983	137,659	-17.2%	42,697	53,793	71,286	83,865	0	0	0	0
Mountain	167,071	177,709	-6.0%	149,738	160,507	16,429	16,246	0	0	904	956
Arizona	33,415	39,185	-14.7%	33,415	39,185	0	0	0	0	0	0
Colorado	28,724	29,841	-3.7%	28,646	29,749	NM	85	0	0	NM	7
Idaho	66	69	-4.9%	0	0	0	0	0	0	66	69
Montana	14,877	14,101	5.5%	263	260	14,609	13,833	0	0	NM	8
Nevada	2,476	6,234	-60.3%	1,714	4,926	762	1,308	0	0	0	0
New Mexico	18,649	18,288	2.0%	18,649	18,288	0	0	0	0	0	0
Utah	29,274	30,374	-3.6%	28,519	29,547	332	381	0	0	424	447
Wyoming	39,588	39,616	-0.1%	38,531	38,551	654	640	0	0	404	425
Pacific Contiguous	6,686	9,879	-32.3%	2,002	2,940	4,355	6,621	0	0	329	318
California	352	778	-54.7%	0	0	NM	499	0	0	297	278
Oregon	2,002	2,940	-31.9%	2,002	2,940	0	0	0	0	0	0
Washington	4,332	6,162	-29.7%	0	0	4,299	6,122	0	0	33	40
Pacific Noncontiguous	1,856	1,899	-2.2%	308	239	1,417	1,518	94	101	NM	41
Alaska	581	514	12.9%	308	239	179	175	94	101	0	0
Hawaii	1,276	1,384	-7.9%	0	0	1,238	1,344	0	0	NM	41
U.S. Total	1,266,336	1,457,090	-13.1%	947,515	1,079,786	307,638	365,427	451	551	10,732	11,326

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.5.A. Utility Scale Facility Net Generation from Petroleum Liquids by State, by Sector, November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	17	17	2.3%	4	1	9	7	NM	5	NM	3
Connecticut	-1	3	-145.9%	0	0	NM	2	NM	0	NM	0
Maine	2	3	-37.2%	NM	0	1	1	NM	0	NM	3
Massachusetts	7	7	4.9%	1	0	5	3	NM	4	NM	0
New Hampshire	4	2	70.1%	2	1	2	1	NM	0	NM	0
Rhode Island	5	NM	NM	1	0	3	1	NM	NM	0	0
Vermont	NM	0	NM	NM	0	0	0	NM	0	0	0
Middle Atlantic	35	45	-21.9%	4	5	27	30	NM	1	3	9
New Jersey	2	2	23.0%	NM	NM	2	2	NM	0	NM	0
New York	11	22	-49.1%	4	5	NM	8	NM	1	3	8
Pennsylvania	22	21	2.6%	NM	0	21	21	NM	0	NM	0
East North Central	40	67	-40.7%	24	51	13	15	NM	NM	2	2
Illinois	5	7	-26.9%	2	3	3	4	NM	0	NM	0
Indiana	9	16	-47.3%	7	15	NM	0	NM	0	2	1
Michigan	6	22	-72.1%	6	22	NM	0	NM	0	NM	0
Ohio	17	14	18.1%	7	4	10	10	NM	0	NM	0
Wisconsin	3	7	-58.6%	3	7	NM	0	NM	NM	NM	0
West North Central	24	28	-15.2%	23	28	NM	0	NM	0	NM	0
Iowa	3	8	-66.6%	3	8	NM	0	NM	0	NM	0
Kansas	7	1	468.1%	7	1	0	0	0	0	0	0
Minnesota	NM	1	NM	2	1	NM	0	NM	0	NM	0
Missouri	5	10	-46.1%	5	10	0	0	NM	0	0	0
Nebraska	3	5	-45.4%	3	5	0	0	0	0	0	0
North Dakota	2	2	25.7%	2	2	0	0	NM	0	NM	0
South Dakota	NM	0	NM	NM	0	NM	0	NM	0	0	0
South Atlantic	211	160	31.8%	157	92	47	59	NM	3	NM	7
Delaware	3	0	NM	NM	0	3	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	104	38	173.3%	102	34	NM	1	0	0	NM	3
Georgia	1	18	-95.6%	-3	11	1	4	0	0	NM	3
Maryland	6	8	-24.6%	1	0	5	5	NM	2	NM	0
North Carolina	23	10	131.5%	21	8	NM	1	NM	0	NM	0
South Carolina	13	9	44.9%	11	8	NM	1	NM	0	1	1
Virginia	47	59	-20.9%	10	13	37	46	NM	0	NM	0
West Virginia	15	18	-17.0%	15	18	0	0	0	0	0	0
East South Central	22	24	-10.5%	19	22	NM	0	NM	0	NM	3
Alabama	NM	8	NM	3	6	NM	0	0	0	NM	2
Kentucky	13	10	24.5%	13	10	0	0	0	0	0	0
Mississippi	1	1	-5.4%	1	1	0	0	0	0	0	0
Tennessee	3	5	-40.5%	3	5	NM	0	NM	0	NM	0
West South Central	11	15	-26.8%	6	9	4	5	NM	0	NM	0
Arkansas	4	4	22.1%	2	3	2	1	0	0	1	0
Louisiana	2	3	-35.9%	1	0	1	3	0	0	0	0
Oklahoma	NM	1	NM	1	1	0	0	NM	0	NM	0
Texas	4	7	-50.1%	2	6	2	1	NM	0	NM	0
Mountain	22	15	45.0%	21	14	1	1	NM	0	NM	0
Arizona	4	5	-27.2%	4	5	0	0	NM	0	0	0
Colorado	NM	0	NM	NM	0	0	0	0	0	NM	0
Idaho	NM	0	NM	NM	0	0	0	0	0	0	0
Montana	NM	1	NM	NM	0	1	1	0	0	0	0
Nevada	1	1	-13.8%	1	1	0	0	0	0	0	0
New Mexico	5	3	74.6%	5	3	0	0	0	0	NM	0
Utah	3	3	-0.5%	3	3	NM	0	0	0	NM	0
Wyoming	6	2	213.7%	5	2	0	0	0	0	NM	0
Pacific Contiguous	7	7	10.5%	4	4	2	1	NM	0	NM	1
California	4	3	21.8%	3	3	NM	0	NM	0	NM	0
Oregon	1	1	28.0%	1	1	0	0	NM	0	0	0
Washington	3	3	-4.7%	NM	1	1	1	NM	0	NM	1
Pacific Noncontiguous	627	586	7.2%	475	418	121	149	1	0	31	18
Alaska	54	33	63.9%	50	30	0	0	NM	0	3	3
Hawaii	574	553	3.8%	425	388	121	149	0	0	27	15
U.S. Total	1,016	963	5.5%	737	643	225	268	6	9	49	42

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.5.B. Utility Scale Facility Net Generation from Petroleum Liquids

by State, by Sector, Year-to-Date through November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	2,069	2,175	-4.8%	186	261	1,748	1,749	97	118	38	46
Connecticut	432	502	-14.0%	7	9	417	482	NM	7	NM	5
Maine	529	304	74.3%	NM	1	492	261	NM	2	35	40
Massachusetts	820	990	-17.2%	59	130	701	783	58	75	NM	1
New Hampshire	174	286	-39.2%	106	107	54	163	NM	16	NM	0
Rhode Island	111	88	26.3%	12	11	84	60	NM	NM	0	0
Vermont	NM	5	NM	NM	4	0	0	NM	1	0	0
Middle Atlantic	2,707	3,178	-14.8%	825	930	1,756	2,087	55	78	72	83
New Jersey	293	457	-35.8%	NM	2	291	452	NM	1	NM	2
New York	1,849	2,111	-12.4%	822	927	911	1,036	52	75	64	74
Pennsylvania	565	610	-7.4%	1	1	554	599	NM	2	NM	7
East North Central	530	702	-24.5%	364	436	137	239	NM	5	25	22
Illinois	52	80	-35.4%	18	26	33	54	NM	0	NM	0
Indiana	150	152	-1.4%	133	139	NM	0	NM	1	16	13
Michigan	107	131	-18.3%	102	126	NM	NM	NM	2	2	2
Ohio	189	291	-35.0%	84	103	100	183	NM	0	NM	5
Wisconsin	33	49	-32.3%	26	42	3	3	NM	2	NM	3
West North Central	286	326	-12.2%	271	307	NM	12	5	5	NM	2
Iowa	40	58	-30.8%	39	57	NM	1	NM	0	NM	0
Kansas	47	40	15.6%	47	40	0	0	0	0	0	0
Minnesota	39	60	-34.5%	26	43	NM	11	4	5	NM	1
Missouri	91	97	-6.3%	91	97	0	0	NM	0	0	0
Nebraska	23	40	-41.7%	23	40	0	0	0	0	0	0
North Dakota	25	23	6.8%	24	23	0	0	NM	0	NM	0
South Dakota	21	7	210.9%	20	7	NM	0	NM	0	0	0
South Atlantic	2,929	3,313	-11.6%	2,140	2,248	665	950	NM	24	100	90
Delaware	146	181	-19.1%	NM	8	143	172	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	573	505	13.4%	548	480	4	5	0	0	20	20
Georgia	140	168	-16.6%	56	90	48	39	3	3	33	37
Maryland	237	454	-47.8%	13	11	203	421	NM	20	NM	1
North Carolina	419	441	-5.1%	382	398	25	28	NM	0	11	15
South Carolina	200	239	-16.3%	173	214	13	16	NM	0	14	9
Virginia	1,083	1,176	-8.0%	846	922	216	244	NM	1	19	9
West Virginia	131	150	-12.2%	118	123	13	26	0	0	0	0
East South Central	333	395	-15.6%	293	365	14	12	NM	0	26	18
Alabama	82	99	-16.7%	47	72	13	11	0	0	23	15
Kentucky	114	110	3.6%	114	110	0	0	0	0	0	0
Mississippi	14	14	2.7%	12	13	0	0	0	0	2	1
Tennessee	123	172	-28.8%	120	169	1	1	NM	0	NM	2
West South Central	232	174	33.5%	139	78	82	84	NM	1	10	10
Arkansas	53	25	116.0%	35	15	11	7	0	0	8	3
Louisiana	70	43	63.4%	56	11	13	26	0	0	0	6
Oklahoma	8	12	-31.5%	8	12	0	0	NM	0	NM	0
Texas	100	94	6.5%	40	41	58	51	NM	1	NM	1
Mountain	214	219	-2.3%	192	193	15	18	NM	0	6	7
Arizona	45	52	-14.7%	45	52	0	0	NM	0	0	0
Colorado	9	8	14.6%	9	8	0	0	NM	0	NM	0
Idaho	NM	0	NM	NM	0	0	0	0	0	0	0
Montana	20	23	-15.3%	NM	8	12	15	0	0	0	0
Nevada	15	14	4.8%	12	12	3	2	0	0	0	0
New Mexico	61	58	4.5%	60	58	0	0	0	0	NM	0
Utah	18	22	-17.4%	18	21	NM	1	0	0	NM	0
Wyoming	46	40	14.0%	41	34	0	0	0	0	6	7
Pacific Contiguous	106	73	45.4%	40	42	31	18	NM	1	34	11
California	82	44	89.0%	32	30	25	9	NM	1	25	4
Oregon	6	8	-29.0%	6	8	0	0	NM	0	0	0
Washington	18	21	-15.6%	NM	4	7	8	NM	0	9	8
Pacific Noncontiguous	7,065	6,776	4.3%	5,469	5,168	1,387	1,391	5	4	203	212
Alaska	707	403	75.4%	662	360	0	0	NM	3	43	40
Hawaii	6,358	6,373	-0.2%	4,807	4,807	1,387	1,391	3	2	160	172
U.S. Total	16,470	17,330	-5.0%	9,919	10,029	5,844	6,561	193	236	514	503

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.6.A. Utility Scale Facility Net Generation from Petroleum Coke by State, by Sector, November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	NM	12	NM	0	0	0	0	0	0	NM	12
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	12	NM	0	0	0	0	0	0	NM	12
East North Central	312	209	49.3%	196	130	100	47	0	0	NM	32
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	179	64	181.1%	179	64	0	0	0	0	0	0
Michigan	NM	84	NM	9	65	4	3	0	0	NM	16
Ohio	96	44	119.1%	0	0	96	44	0	0	0	0
Wisconsin	16	18	-8.9%	8	2	0	0	0	0	8	16
West North Central	NM	1	NM	0	0	0	0	1	1	NM	0
Iowa	NM	1	NM	0	0	0	0	1	1	NM	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	114	13	760.6%	94	0	0	0	0	0	19	13
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	94	0	--	94	0	0	0	0	0	0	0
Georgia	19	13	46.7%	0	0	0	0	0	0	19	13
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	78	75	4.7%	78	75	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	78	75	4.7%	78	75	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	143	424	-66.3%	121	373	0	0	0	0	NM	51
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	133	411	-67.6%	121	373	0	0	0	0	NM	38
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	NM	13	NM	0	0	0	0	0	0	NM	13
Mountain	40	41	-4.0%	0	0	40	41	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	40	41	-4.0%	0	0	40	41	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	701	775	-9.5%	490	577	140	88	1	1	NM	108

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.6.B. Utility Scale Facility Net Generation from Petroleum Coke

by State, by Sector, Year-to-Date through November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	183	169	8.0%	0	0	0	0	0	0	183	169
New Jersey	NM	NM	NM	0	0	0	0	0	0	NM	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	167	143	16.2%	0	0	0	0	0	0	167	143
East North Central	2,993	3,038	-1.5%	1,659	1,832	1,091	892	0	0	242	313
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	1,060	1,095	-3.2%	1,060	1,095	0	0	0	0	0	0
Michigan	704	847	-17.0%	542	651	25	46	0	0	137	150
Ohio	1,067	847	26.0%	0	0	1,066	846	0	0	NM	0
Wisconsin	162	249	-34.9%	58	87	0	0	0	0	104	163
West North Central	68	80	-15.5%	0	0	0	0	8	8	60	73
Iowa	68	80	-15.5%	0	0	0	0	8	8	60	73
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,631	1,390	17.4%	1,464	1,211	0	0	0	0	167	179
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,464	1,211	20.9%	1,464	1,211	0	0	0	0	0	0
Georgia	167	179	-6.9%	0	0	0	0	0	0	167	179
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	906	939	-3.5%	906	939	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	906	939	-3.5%	906	939	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	3,997	4,812	-16.9%	3,644	4,278	0	0	0	0	353	534
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	3,870	4,648	-16.7%	3,644	4,278	0	0	0	0	226	370
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	127	163	-22.1%	0	0	0	0	0	0	127	163
Mountain	442	360	22.9%	0	0	442	360	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	442	360	22.9%	0	0	442	360	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	NM	19	NM	0	0	NM	19	0	0	0	0
California	NM	19	NM	0	0	NM	19	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	10,227	10,807	-5.4%	7,674	8,260	1,539	1,271	8	8	1,005	1,268

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.7.A. Utility Scale Facility Net Generation from Natural Gas by State, by Sector, November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	3,992	3,312	20.5%	18	10	3,792	3,121	80	77	103	104
Connecticut	1,464	1,245	17.6%	0	1	1,395	1,171	32	33	37	40
Maine	309	361	-14.4%	0	0	256	303	NM	2	51	55
Massachusetts	1,125	1,087	3.6%	15	7	1,057	1,035	41	37	NM	7
New Hampshire	534	274	94.6%	2	2	528	270	NM	1	NM	2
Rhode Island	559	345	62.1%	0	0	555	341	NM	NM	0	0
Vermont	0	0	-56.7%	0	0	0	0	0	0	0	0
Middle Atlantic	12,067	10,565	14.2%	908	979	10,920	9,370	92	80	148	137
New Jersey	3,249	2,721	19.4%	NM	7	3,195	2,666	NM	16	31	32
New York	4,029	4,065	-0.9%	900	971	3,049	3,022	64	54	NM	18
Pennsylvania	4,789	3,779	26.7%	NM	1	4,676	3,681	NM	10	100	87
East North Central	7,269	4,532	60.4%	3,153	2,316	3,819	2,011	140	103	158	101
Illinois	883	385	129.6%	NM	34	776	282	40	40	36	29
Indiana	1,426	1,071	33.1%	1,035	884	324	144	15	8	52	35
Michigan	1,771	822	115.5%	483	181	1,183	575	58	43	47	23
Ohio	2,175	1,507	44.4%	664	567	1,495	932	NM	4	NM	3
Wisconsin	1,014	747	35.7%	940	650	41	78	NM	8	NM	11
West North Central	974	856	13.8%	833	693	89	132	NM	13	NM	18
Iowa	71	104	-31.8%	55	90	0	0	NM	4	NM	11
Kansas	83	104	-20.7%	NM	103	0	0	0	0	NM	2
Minnesota	434	274	58.5%	398	218	16	43	NM	9	NM	4
Missouri	282	291	-3.2%	206	202	74	89	2	0	NM	0
Nebraska	14	21	-30.9%	14	20	0	0	0	0	0	0
North Dakota	NM	17	NM	NM	16	0	0	0	0	NM	2
South Dakota	62	45	37.4%	62	45	0	0	0	0	0	0
South Atlantic	22,953	18,007	27.5%	18,387	14,878	4,232	2,870	49	26	286	233
Delaware	369	603	-38.7%	NM	3	302	537	0	0	64	63
District of Columbia	NM	5	NM	0	0	0	0	NM	5	0	0
Florida	12,166	9,101	33.7%	11,055	8,618	985	380	NM	2	122	101
Georgia	3,974	3,626	9.6%	2,872	2,663	1,057	925	0	0	45	39
Maryland	373	129	189.5%	0	0	330	106	38	19	NM	4
North Carolina	2,058	2,384	-13.7%	1,924	2,031	118	349	1	0	NM	5
South Carolina	1,660	756	119.6%	1,452	633	204	120	NM	0	NM	2
Virginia	2,270	1,369	65.8%	1,076	927	1,163	422	NM	0	31	20
West Virginia	77	33	134.3%	4	1	73	31	0	0	0	0
East South Central	9,211	7,884	16.8%	5,431	3,941	3,620	3,791	NM	13	148	139
Alabama	4,363	4,781	-8.7%	1,348	1,321	2,934	3,382	0	0	81	79
Kentucky	630	185	239.9%	608	166	4	0	0	0	NM	19
Mississippi	3,504	2,349	49.2%	2,787	1,913	680	408	NM	2	35	26
Tennessee	714	569	25.6%	689	542	NM	1	NM	11	15	16
West South Central	25,825	21,378	20.8%	7,482	5,651	12,884	10,323	75	71	5,383	5,333
Arkansas	723	533	35.6%	241	286	452	216	NM	0	30	31
Louisiana	5,813	4,452	30.6%	3,084	2,021	456	170	NM	15	2,257	2,247
Oklahoma	2,832	1,663	70.3%	1,868	1,279	948	373	NM	0	NM	11
Texas	16,457	14,730	11.7%	2,289	2,066	11,027	9,565	58	55	3,083	3,044
Mountain	7,599	6,448	17.8%	5,586	4,729	1,869	1,586	30	30	113	104
Arizona	2,358	1,885	25.1%	1,366	961	982	915	10	9	0	0
Colorado	1,304	1,125	15.8%	1,143	827	159	295	0	1	NM	2
Idaho	312	200	55.8%	129	105	177	93	0	0	NM	1
Montana	63	60	4.5%	58	55	NM	5	0	0	0	0
Nevada	2,128	1,800	18.2%	1,957	1,591	150	185	NM	5	16	19
New Mexico	697	610	14.3%	325	576	363	27	8	7	1	0
Utah	679	699	-2.9%	605	611	NM	46	NM	7	34	36
Wyoming	58	68	-14.4%	NM	2	NM	20	0	0	55	46
Pacific Contiguous	11,758	11,074	6.2%	4,670	3,989	5,920	6,029	148	148	1,020	909
California	8,724	8,879	-1.8%	2,829	2,681	4,753	5,168	138	139	1,004	892
Oregon	1,643	1,338	22.8%	655	548	972	771	NM	8	NM	11
Washington	1,391	856	62.4%	1,186	760	195	90	NM	1	8	6
Pacific Noncontiguous	218	298	-26.9%	210	291	0	0	NM	0	NM	6
Alaska	218	298	-26.9%	210	291	0	0	NM	0	NM	6
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	101,866	84,354	20.8%	46,677	37,477	47,144	39,234	650	560	7,395	7,083

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.7.B. Utility Scale Facility Net Generation from Natural Gas

by State, by Sector, Year-to-Date through November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	49,888	44,424	12.3%	388	331	47,460	41,721	916	879	1,125	1,493
Connecticut	15,690	13,228	18.6%	2	11	14,888	12,440	371	356	429	422
Maine	2,828	4,075	-30.6%	0	0	2,265	3,121	NM	24	540	930
Massachusetts	19,467	17,590	10.7%	362	289	18,513	16,740	465	447	127	113
New Hampshire	5,673	3,956	43.4%	22	28	5,608	3,887	NM	13	28	28
Rhode Island	6,229	5,573	11.8%	0	0	6,187	5,534	42	39	0	0
Vermont	1	2	-39.9%	1	2	0	0	0	0	0	0
Middle Atlantic	141,931	126,760	12.0%	11,253	10,915	127,905	113,244	1,022	912	1,751	1,688
New Jersey	34,390	28,646	20.1%	NM	69	33,752	28,050	179	167	371	360
New York	52,860	49,949	5.8%	11,153	10,838	40,801	38,287	706	619	200	205
Pennsylvania	54,681	48,165	13.5%	NM	8	53,351	46,907	138	126	1,180	1,124
East North Central	81,295	53,720	51.3%	34,592	22,020	43,678	29,343	1,440	1,233	1,585	1,124
Illinois	9,747	5,003	94.8%	614	378	8,260	3,787	463	449	410	390
Indiana	14,545	8,692	67.3%	11,636	6,279	2,228	1,892	153	101	527	421
Michigan	18,933	11,409	65.9%	4,668	3,047	13,255	7,742	571	469	439	151
Ohio	25,855	21,249	21.7%	6,477	5,946	19,220	15,166	100	91	58	47
Wisconsin	12,215	7,367	65.8%	11,197	6,371	714	757	153	125	150	115
West North Central	16,264	10,752	51.3%	13,665	8,794	2,032	1,597	288	191	279	169
Iowa	2,232	1,221	82.8%	2,074	1,133	NM	0	75	36	83	53
Kansas	1,422	1,377	3.3%	1,327	1,336	0	0	0	0	95	41
Minnesota	6,675	3,410	95.7%	5,705	2,716	763	543	138	98	69	53
Missouri	4,313	3,771	14.4%	2,966	2,657	1,269	1,054	75	57	NM	3
Nebraska	469	380	23.7%	467	379	0	0	NM	0	NM	0
North Dakota	353	213	66.0%	326	193	0	0	0	0	NM	20
South Dakota	800	380	110.5%	800	380	0	0	0	0	0	0
South Atlantic	279,468	232,061	20.4%	227,121	192,213	48,741	36,902	508	442	3,098	2,505
Delaware	6,211	5,684	9.3%	NM	31	5,297	5,089	0	0	870	564
District of Columbia	64	62	1.9%	0	0	0	0	64	62	0	0
Florida	143,869	130,406	10.3%	134,713	122,317	7,837	6,893	33	30	1,286	1,166
Georgia	46,286	37,447	23.6%	30,473	26,927	15,372	10,178	0	0	440	342
Maryland	4,224	2,349	79.8%	0	0	3,779	1,958	393	342	51	49
North Carolina	32,648	25,696	27.1%	29,017	22,529	3,492	3,084	7	0	132	83
South Carolina	14,955	10,553	41.7%	13,395	9,314	1,529	1,207	NM	3	25	29
Virginia	29,960	19,233	55.8%	19,360	10,919	10,300	8,037	NM	5	294	272
West Virginia	1,252	632	98.2%	117	176	1,134	456	0	0	NM	0
East South Central	105,739	81,541	29.7%	60,935	46,532	42,987	33,356	136	131	1,681	1,523
Alabama	51,158	43,838	16.7%	13,541	13,054	36,689	29,901	0	0	929	883
Kentucky	4,551	2,370	92.0%	3,670	1,996	650	144	0	0	232	229
Mississippi	41,616	29,585	40.7%	35,597	25,960	5,641	3,305	NM	19	359	301
Tennessee	8,413	5,749	46.3%	8,127	5,521	NM	6	117	112	162	110
West South Central	324,594	273,633	18.6%	96,888	78,117	169,577	137,225	839	800	57,290	57,492
Arkansas	13,916	8,885	56.6%	4,011	1,775	9,587	6,856	NM	3	316	251
Louisiana	60,354	51,782	16.6%	34,216	26,052	3,388	2,124	171	176	22,578	23,431
Oklahoma	31,181	24,440	27.6%	19,835	15,903	11,199	8,415	NM	0	136	122
Texas	219,143	188,525	16.2%	38,826	34,386	145,403	119,830	655	621	34,260	33,688
Mountain	88,673	77,269	14.8%	63,402	53,351	23,694	22,401	326	369	1,252	1,148
Arizona	31,340	26,025	20.4%	16,980	12,727	14,250	13,173	110	126	0	0
Colorado	10,752	10,854	-0.9%	8,557	8,441	2,170	2,391	NM	6	16	16
Idaho	3,376	2,389	41.3%	1,896	1,199	1,438	1,163	0	0	42	27
Montana	680	483	41.0%	621	441	60	41	0	0	0	0
Nevada	25,902	21,040	23.1%	24,080	18,549	1,547	2,213	51	59	224	219
New Mexico	8,634	8,280	4.3%	4,787	5,275	3,719	2,874	88	101	40	30
Utah	7,377	7,702	-4.2%	6,438	6,698	497	503	68	77	374	425
Wyoming	611	496	23.1%	NM	21	NM	43	0	0	556	432
Pacific Contiguous	132,730	132,437	0.2%	50,087	46,115	70,834	73,318	1,550	1,666	10,259	11,338
California	106,692	110,758	-3.7%	34,391	32,820	60,712	65,118	1,455	1,585	10,134	11,235
Oregon	14,459	11,476	26.0%	5,893	4,427	8,414	6,921	78	69	74	58
Washington	11,578	10,203	13.5%	9,803	8,869	1,707	1,279	NM	11	51	44
Pacific Noncontiguous	2,635	2,974	-11.4%	2,560	2,912	0	0	NM	2	72	61
Alaska	2,635	2,974	-11.4%	2,560	2,912	0	0	NM	2	72	61
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	1,223,218	1,035,571	18.1%	560,890	461,300	576,907	489,106	7,029	6,625	78,392	78,540

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.8.A. Utility Scale Facility Net Generation from Other Gases by State, by Sector, November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	NM	58	NM	0	0	0	0	0	0	NM	58
New Jersey	NM	14	NM	0	0	0	0	0	0	NM	14
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	29	44	-33.6%	0	0	0	0	0	0	29	44
East North Central	197	363	-45.8%	0	9	NM	139	0	0	155	215
Illinois	NM	27	NM	0	0	1	1	0	0	NM	26
Indiana	124	173	-28.5%	0	2	0	0	0	0	124	171
Michigan	0	82	-100.0%	0	7	0	75	0	0	0	0
Ohio	NM	80	NM	0	0	NM	63	0	0	NM	17
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	NM	2	NM	0	0	0	0	0	0	NM	2
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	NM	2	NM	0	0	0	0	0	0	NM	2
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	28	33	-15.0%	0	0	0	0	0	0	28	33
Delaware	24	29	-15.9%	0	0	0	0	0	0	24	29
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1	0	97.6%	0	0	0	0	0	0	1	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	3	3	-18.0%	0	0	0	0	0	0	3	3
East South Central	NM	20	NM	0	0	0	0	0	0	NM	20
Alabama	NM	19	NM	0	0	0	0	0	0	NM	19
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	1	1	-4.5%	0	0	0	0	0	0	1	1
West South Central	382	390	-2.1%	0	0	132	122	0	0	250	268
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	164	164	0.3%	0	0	0	0	0	0	164	164
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	217	226	-3.9%	0	0	132	122	0	0	85	104
Mountain	41	33	24.5%	0	0	2	0	0	0	39	32
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	2	0	NM	0	0	2	0	0	0	0	0
Nevada	0	0	-40.4%	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	39	32	20.7%	0	0	0	0	0	0	39	32
Pacific Contiguous	151	170	-11.0%	0	0	36	32	0	0	115	138
California	115	138	-16.6%	0	0	0	0	0	0	115	138
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	36	32	13.8%	0	0	36	32	0	0	0	0
Pacific Noncontiguous	NM	6	NM	0	0	0	0	0	0	NM	6
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	NM	6	NM	0	0	0	0	0	0	NM	6
U.S. Total	848	1,073	-21.0%	0	9	211	292	0	0	637	772

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.8.B. Utility Scale Facility Net Generation from Other Gases

by State, by Sector, Year-to-Date through November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	546	591	-7.6%	0	0	0	0	0	0	546	591
New Jersey	157	144	8.8%	0	0	0	0	0	0	157	144
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	389	447	-12.9%	0	0	0	0	0	0	389	447
East North Central	4,326	4,095	5.6%	195	97	1,655	1,576	0	0	2,475	2,422
Illinois	324	317	2.4%	0	0	2	8	0	0	322	309
Indiana	1,962	1,946	0.8%	NM	18	0	0	0	0	1,945	1,928
Michigan	1,176	986	19.3%	178	79	997	907	0	0	0	0
Ohio	863	846	2.0%	0	0	656	661	0	0	207	186
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	NM	34	NM	0	0	0	0	0	0	NM	34
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	NM	34	NM	0	0	0	0	0	0	NM	34
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	245	251	-2.4%	0	0	0	0	0	0	245	251
Delaware	213	217	-1.7%	0	0	0	0	0	0	213	217
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	5	7	-29.7%	0	0	0	0	0	0	5	7
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	27	28	-1.2%	0	0	0	0	0	0	27	28
East South Central	67	174	-61.4%	0	0	0	0	0	0	67	174
Alabama	56	162	-65.4%	0	0	0	0	0	0	56	162
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	11	12	-7.5%	0	0	0	0	0	0	11	12
West South Central	4,321	3,846	12.4%	0	0	1,149	1,015	0	0	3,172	2,831
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	2,064	1,767	16.8%	0	0	0	0	0	0	2,064	1,767
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	2,258	2,079	8.6%	0	0	1,149	1,015	0	0	1,109	1,064
Mountain	417	310	34.8%	0	0	21	5	0	0	397	305
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	16	0	NM	0	0	16	0	0	0	0	0
Nevada	5	5	9.1%	0	0	5	5	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	397	305	30.1%	0	0	0	0	0	0	397	305
Pacific Contiguous	1,780	1,512	17.7%	0	0	359	303	0	0	1,421	1,209
California	1,421	1,209	17.5%	0	0	0	0	0	0	1,421	1,209
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	359	303	18.7%	0	0	359	303	0	0	0	0
Pacific Noncontiguous	52	57	-8.1%	0	0	0	0	0	0	52	57
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	52	57	-8.1%	0	0	0	0	0	0	52	57
U.S. Total	11,800	10,869	8.6%	195	97	3,184	2,898	0	0	8,421	7,874

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.9.A. Utility Scale Facility Net Generation from Nuclear Energy by State, by Sector, November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	2,233	2,766	-19.3%	0	0	2,233	2,766	0	0	0	0
Connecticut	1,278	1,003	27.4%	0	0	1,278	1,003	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	491	492	-0.3%	0	0	491	492	0	0	0	0
New Hampshire	464	899	-48.4%	0	0	464	899	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	372	-100.0%	0	0	0	372	0	0	0	0
Middle Atlantic	12,375	12,634	-2.1%	0	0	12,375	12,634	0	0	0	0
New Jersey	2,067	2,353	-12.1%	0	0	2,067	2,353	0	0	0	0
New York	3,814	3,913	-2.5%	0	0	3,814	3,913	0	0	0	0
Pennsylvania	6,494	6,368	2.0%	0	0	6,494	6,368	0	0	0	0
East North Central	12,502	13,005	-3.9%	1,590	1,987	10,912	11,018	0	0	0	0
Illinois	7,922	8,196	-3.3%	0	0	7,922	8,196	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	2,174	2,574	-15.5%	1,590	1,987	584	587	0	0	0	0
Ohio	1,581	1,389	13.8%	0	0	1,581	1,389	0	0	0	0
Wisconsin	826	846	-2.4%	0	0	826	846	0	0	0	0
West North Central	3,892	2,789	39.5%	3,453	2,756	439	33	0	0	0	0
Iowa	439	33	NM	0	0	439	33	0	0	0	0
Kansas	880	852	3.3%	880	852	0	0	0	0	0	0
Minnesota	751	815	-7.9%	751	815	0	0	0	0	0	0
Missouri	887	210	322.3%	887	210	0	0	0	0	0	0
Nebraska	934	879	6.2%	934	879	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	14,923	16,933	-11.9%	13,642	15,656	1,281	1,277	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,031	2,461	-17.5%	2,031	2,461	0	0	0	0	0	0
Georgia	2,987	2,997	-0.4%	2,987	2,997	0	0	0	0	0	0
Maryland	1,281	1,277	0.3%	0	0	1,281	1,277	0	0	0	0
North Carolina	3,645	3,261	11.7%	3,645	3,261	0	0	0	0	0	0
South Carolina	3,327	4,268	-22.0%	3,327	4,268	0	0	0	0	0	0
Virginia	1,653	2,668	-38.1%	1,653	2,668	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	6,044	6,815	-11.3%	6,044	6,815	0	0	0	0	0	0
Alabama	3,381	3,272	3.3%	3,381	3,272	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	987	1,035	-4.7%	987	1,035	0	0	0	0	0	0
Tennessee	1,676	2,507	-33.2%	1,676	2,507	0	0	0	0	0	0
West South Central	3,783	5,753	-34.2%	1,511	2,893	2,273	2,860	0	0	0	0
Arkansas	949	1,340	-29.1%	949	1,340	0	0	0	0	0	0
Louisiana	561	1,553	-63.8%	561	1,553	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	2,273	2,860	-20.5%	0	0	2,273	2,860	0	0	0	0
Mountain	2,337	2,218	5.4%	2,337	2,218	0	0	0	0	0	0
Arizona	2,337	2,218	5.4%	2,337	2,218	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	2,174	2,227	-2.4%	2,174	2,227	0	0	0	0	0	0
California	1,370	1,423	-3.7%	1,370	1,423	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	804	804	0.0%	804	804	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	60,264	65,140	-7.5%	30,751	34,552	29,513	30,589	0	0	0	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.9.B. Utility Scale Facility Net Generation from Nuclear Energy

by State, by Sector, Year-to-Date through November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	28,903	33,520	-13.8%	0	0	28,903	33,520	0	0	0	0
Connecticut	15,854	14,272	11.1%	0	0	15,854	14,272	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	4,493	5,269	-14.7%	0	0	4,493	5,269	0	0	0	0
New Hampshire	8,555	9,240	-7.4%	0	0	8,555	9,240	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	4,739	-100.0%	0	0	0	4,739	0	0	0	0
Middle Atlantic	144,155	138,977	3.7%	0	0	144,155	138,977	0	0	0	0
New Jersey	30,211	28,376	6.5%	0	0	30,211	28,376	0	0	0	0
New York	40,729	39,001	4.4%	0	0	40,729	39,001	0	0	0	0
Pennsylvania	73,214	71,600	2.3%	0	0	73,214	71,600	0	0	0	0
East North Central	140,552	140,432	0.1%	21,347	22,984	119,205	117,448	0	0	0	0
Illinois	88,606	88,987	-0.4%	0	0	88,606	88,987	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	27,061	28,200	-4.0%	21,347	22,984	5,714	5,216	0	0	0	0
Ohio	15,747	14,661	7.4%	0	0	15,747	14,661	0	0	0	0
Wisconsin	9,137	8,584	6.4%	0	0	9,137	8,584	0	0	0	0
West North Central	42,460	40,915	3.8%	37,673	36,994	4,787	3,921	0	0	0	0
Iowa	4,787	3,921	22.1%	0	0	4,787	3,921	0	0	0	0
Kansas	7,720	7,649	0.9%	7,720	7,649	0	0	0	0	0	0
Minnesota	11,072	11,684	-5.2%	11,072	11,684	0	0	0	0	0	0
Missouri	9,521	8,480	12.3%	9,521	8,480	0	0	0	0	0	0
Nebraska	9,361	9,180	2.0%	9,361	9,180	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	182,269	180,334	1.1%	168,839	167,316	13,431	13,018	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	25,501	25,229	1.1%	25,501	25,229	0	0	0	0	0	0
Georgia	30,777	29,656	3.8%	30,777	29,656	0	0	0	0	0	0
Maryland	13,431	13,018	3.2%	0	0	13,431	13,018	0	0	0	0
North Carolina	38,221	37,117	3.0%	38,221	37,117	0	0	0	0	0	0
South Carolina	48,760	47,635	2.4%	48,760	47,635	0	0	0	0	0	0
Virginia	25,580	27,679	-7.6%	25,580	27,679	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	72,214	71,750	0.6%	72,214	71,750	0	0	0	0	0	0
Alabama	38,381	37,475	2.4%	38,381	37,475	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	10,705	9,199	16.4%	10,705	9,199	0	0	0	0	0	0
Tennessee	23,127	25,076	-7.8%	23,127	25,076	0	0	0	0	0	0
West South Central	63,227	64,411	-1.8%	26,847	28,935	36,380	35,475	0	0	0	0
Arkansas	12,530	13,124	-4.5%	12,530	13,124	0	0	0	0	0	0
Louisiana	14,317	15,811	-9.4%	14,317	15,811	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	36,380	35,475	2.6%	0	0	36,380	35,475	0	0	0	0
Mountain	29,540	29,348	0.7%	29,540	29,348	0	0	0	0	0	0
Arizona	29,540	29,348	0.7%	29,540	29,348	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	24,223	24,117	0.4%	24,223	24,117	0	0	0	0	0	0
California	16,922	15,456	9.5%	16,922	15,456	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	7,301	8,661	-15.7%	7,301	8,661	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	727,544	723,803	0.5%	380,683	381,444	346,861	342,360	0	0	0	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.10.A. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power by State, by Sector, November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	624	501	24.6%	85	64	506	408	NM	NM	33	29
Connecticut	41	28	45.7%	NM	2	38	26	0	0	0	0
Maine	288	244	18.1%	0	0	255	215	0	0	33	29
Massachusetts	80	68	17.2%	NM	13	60	54	NM	NM	NM	0
New Hampshire	103	81	28.0%	25	22	78	59	0	0	0	0
Rhode Island	NM	0	NM	0	0	NM	0	0	0	0	0
Vermont	111	80	39.5%	37	26	74	54	0	0	0	0
Middle Atlantic	2,592	2,357	9.9%	1,961	1,886	624	465	NM	0	NM	6
New Jersey	NM	1	NM	0	0	NM	1	0	0	0	0
New York	2,393	2,276	5.1%	1,953	1,883	432	386	NM	0	NM	6
Pennsylvania	197	80	145.3%	NM	2	189	78	0	0	0	0
East North Central	400	450	-11.0%	343	391	44	41	NM	0	NM	17
Illinois	NM	8	NM	NM	3	NM	5	NM	0	0	0
Indiana	49	44	10.7%	49	44	0	0	0	0	0	0
Michigan	109	125	-13.3%	99	115	NM	8	0	0	NM	2
Ohio	64	36	78.3%	41	17	NM	19	0	0	0	0
Wisconsin	167	237	-29.4%	150	212	NM	10	0	0	NM	15
West North Central	713	1,008	-29.2%	696	996	NM	11	0	0	2	1
Iowa	61	80	-23.4%	61	79	NM	1	0	0	0	0
Kansas	NM	1	NM	0	0	NM	1	0	0	0	0
Minnesota	38	28	37.2%	NM	18	NM	9	0	0	2	1
Missouri	68	35	94.1%	68	35	0	0	0	0	0	0
Nebraska	78	105	-25.9%	78	105	0	0	0	0	0	0
North Dakota	117	189	-38.0%	117	189	0	0	0	0	0	0
South Dakota	349	570	-38.7%	349	570	0	0	0	0	0	0
South Atlantic	1,676	768	118.2%	1,458	670	165	57	NM	1	51	40
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	NM	11	NM	NM	11	0	0	0	0	0	0
Georgia	336	182	84.4%	333	180	NM	1	0	0	NM	1
Maryland	107	4	NM	0	0	107	4	0	0	0	0
North Carolina	612	295	107.4%	604	291	NM	4	NM	1	NM	0
South Carolina	417	117	256.2%	410	114	NM	3	NM	0	0	0
Virginia	61	40	54.5%	54	37	NM	3	0	0	NM	0
West Virginia	122	120	2.3%	37	38	38	43	0	0	48	39
East South Central	2,214	2,100	5.4%	2,213	2,100	NM	1	0	0	0	0
Alabama	1,019	789	29.2%	1,019	789	0	0	0	0	0	0
Kentucky	267	303	-11.8%	266	302	NM	1	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	928	1,009	-8.0%	928	1,009	0	0	0	0	0	0
West South Central	489	257	90.1%	438	199	50	58	0	0	0	0
Arkansas	222	127	75.1%	220	126	NM	1	0	0	0	0
Louisiana	45	56	-20.2%	0	0	45	56	0	0	0	0
Oklahoma	152	63	143.6%	152	63	0	0	0	0	0	0
Texas	69	11	525.6%	66	10	NM	1	0	0	0	0
Mountain	1,851	1,931	-4.1%	1,789	1,893	61	38	NM	0	0	0
Arizona	420	486	-13.6%	420	486	0	0	0	0	0	0
Colorado	76	9	732.8%	61	8	NM	1	NM	0	0	0
Idaho	467	399	17.1%	434	376	33	23	0	0	0	0
Montana	637	816	-22.0%	626	805	NM	11	0	0	0	0
Nevada	164	155	5.9%	161	152	NM	2	0	0	0	0
New Mexico	NM	6	NM	NM	6	0	0	0	0	0	0
Utah	41	40	1.3%	40	40	NM	0	0	0	0	0
Wyoming	40	20	95.5%	39	20	NM	0	0	0	0	0
Pacific Contiguous	8,667	9,103	-4.8%	8,604	9,031	63	72	NM	0	0	0
California	646	832	-22.3%	624	798	NM	33	NM	0	0	0
Oregon	2,572	2,676	-3.9%	2,551	2,657	NM	19	0	0	0	0
Washington	5,448	5,595	-2.6%	5,430	5,576	NM	19	0	0	0	0
Pacific Noncontiguous	154	148	4.0%	144	139	6	4	0	0	NM	5
Alaska	142	137	3.9%	142	137	0	0	0	0	0	0
Hawaii	NM	11	NM	NM	2	6	4	0	0	NM	5
U.S. Total	19,381	18,625	4.1%	17,733	17,369	1,535	1,155	NM	2	109	99

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.10.B. Utility Scale Facility Net Generation from Hydroelectric (Conventional) Power

by State, by Sector, Year-to-Date through November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	6,816	6,775	0.6%	865	792	5,575	5,619	NM	NM	370	359
Connecticut	407	392	3.8%	NM	31	375	361	0	0	0	0
Maine	3,257	3,304	-1.4%	0	0	2,892	2,949	0	0	365	354
Massachusetts	804	796	1.0%	180	155	613	631	NM	NM	NM	5
New Hampshire	1,242	1,240	0.2%	282	264	961	976	0	0	0	0
Rhode Island	NM	4	NM	0	0	NM	4	0	0	0	0
Vermont	1,102	1,039	6.0%	371	342	731	697	0	0	0	0
Middle Atlantic	26,911	26,141	2.9%	20,394	19,598	6,451	6,478	NM	2	63	62
New Jersey	NM	16	NM	0	0	NM	16	0	0	0	0
New York	24,567	23,763	3.4%	20,318	19,525	4,182	4,173	NM	2	63	62
Pennsylvania	2,318	2,362	-1.9%	75	73	2,242	2,290	0	0	0	0
East North Central	4,339	4,620	-6.1%	3,707	3,944	472	502	NM	3	157	172
Illinois	118	125	-5.9%	NM	44	71	79	NM	3	0	0
Indiana	346	335	3.2%	346	335	0	0	0	0	0	0
Michigan	1,350	1,419	-4.9%	1,236	1,302	89	92	0	0	NM	26
Ohio	452	455	-0.6%	225	216	227	239	0	0	0	0
Wisconsin	2,073	2,285	-9.3%	1,856	2,047	84	92	0	0	133	146
West North Central	10,064	10,622	-5.3%	9,865	10,413	178	192	0	0	21	18
Iowa	738	824	-10.4%	733	818	NM	6	0	0	0	0
Kansas	NM	15	NM	0	0	NM	15	0	0	0	0
Minnesota	471	517	-9.0%	294	329	156	171	0	0	21	18
Missouri	1,318	639	106.1%	1,318	639	0	0	0	0	0	0
Nebraska	997	1,085	-8.2%	997	1,085	0	0	0	0	0	0
North Dakota	1,957	2,378	-17.7%	1,957	2,378	0	0	0	0	0	0
South Dakota	4,567	5,163	-11.6%	4,567	5,163	0	0	0	0	0	0
South Atlantic	12,742	13,322	-4.4%	10,230	10,892	1,962	1,915	NM	16	538	499
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	198	195	1.5%	198	195	0	0	0	0	0	0
Georgia	2,639	2,835	-6.9%	2,607	2,808	NM	9	0	0	NM	17
Maryland	1,475	1,441	2.4%	0	0	1,475	1,441	0	0	0	0
North Carolina	4,032	4,444	-9.3%	3,963	4,376	NM	54	NM	14	NM	0
South Carolina	2,423	2,417	0.2%	2,350	2,344	70	70	NM	3	0	0
Virginia	816	882	-7.6%	745	815	60	58	0	0	NM	10
West Virginia	1,159	1,109	4.6%	367	354	291	283	0	0	501	473
East South Central	20,314	19,278	5.4%	20,307	19,271	NM	7	0	0	0	0
Alabama	8,687	8,448	2.8%	8,687	8,448	0	0	0	0	0	0
Kentucky	3,043	2,808	8.4%	3,036	2,801	NM	7	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	8,583	8,022	7.0%	8,583	8,022	0	0	0	0	0	0
West South Central	6,905	5,218	32.3%	5,971	4,148	935	1,070	0	0	0	0
Arkansas	3,237	2,488	30.1%	3,217	2,469	NM	19	0	0	0	0
Louisiana	883	1,019	-13.4%	0	0	883	1,019	0	0	0	0
Oklahoma	2,114	1,345	57.2%	2,114	1,345	0	0	0	0	0	0
Texas	672	367	83.1%	640	335	NM	32	0	0	0	0
Mountain	27,451	29,964	-8.4%	26,402	28,819	1,044	1,139	NM	6	0	0
Arizona	6,004	5,605	7.1%	6,004	5,605	0	0	0	0	0	0
Colorado	1,360	1,681	-19.1%	1,172	1,490	182	186	NM	6	0	0
Idaho	7,616	8,453	-9.9%	6,929	7,691	686	762	0	0	0	0
Montana	8,868	10,438	-15.0%	8,737	10,297	131	141	0	0	0	0
Nevada	2,124	2,269	-6.4%	2,093	2,234	NM	35	0	0	0	0
New Mexico	112	91	23.2%	112	91	0	0	0	0	0	0
Utah	550	585	-5.9%	544	578	NM	7	0	0	0	0
Wyoming	818	842	-2.8%	810	833	NM	9	0	0	0	0
Pacific Contiguous	110,786	119,629	-7.4%	109,781	118,491	998	1,134	NM	4	0	0
California	13,017	15,543	-16.3%	12,511	14,885	498	654	NM	4	0	0
Oregon	29,432	31,762	-7.3%	29,177	31,543	256	219	0	0	0	0
Washington	68,337	72,323	-5.5%	68,093	72,063	244	261	0	0	0	0
Pacific Noncontiguous	1,490	1,468	1.5%	1,410	1,404	36	17	0	0	NM	47
Alaska	1,390	1,382	0.6%	1,390	1,382	0	0	0	0	0	0
Hawaii	100	85	17.2%	NM	21	36	17	0	0	NM	47
U.S. Total	227,819	237,038	-3.9%	208,931	217,771	17,658	18,074	NM	36	1,194	1,157

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.11.A. Utility Scale Facility Net Generation from Renewable Sources Excluding Hydroelectric by State, by Sector, November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	930	929	0.2%	75	81	747	709	15	16	92	123
Connecticut	67	75	-10.6%	0	0	67	73	0	2	0	0
Maine	425	412	3.0%	0	0	324	282	8	8	92	122
Massachusetts	174	153	13.6%	8	7	162	142	NM	3	NM	0
New Hampshire	173	194	-11.0%	23	31	147	160	3	3	0	0
Rhode Island	19	20	-8.6%	0	0	18	20	NM	1	0	0
Vermont	74	74	-0.6%	44	43	29	31	NM	0	0	0
Middle Atlantic	1,369	1,401	-2.3%	34	23	1,197	1,248	62	54	76	75
New Jersey	148	119	24.3%	7	3	114	96	27	21	NM	0
New York	636	682	-6.8%	27	21	566	622	19	19	24	21
Pennsylvania	585	599	-2.4%	0	0	517	531	16	14	52	54
East North Central	3,313	3,061	8.2%	409	318	2,744	2,567	25	23	134	153
Illinois	1,419	1,320	7.6%	NM	2	1,418	1,318	NM	0	0	0
Indiana	606	546	10.9%	28	23	570	517	2	2	6	5
Michigan	735	688	6.9%	219	168	443	440	18	16	55	64
Ohio	215	181	18.7%	NM	3	180	151	NM	0	32	27
Wisconsin	337	326	3.3%	158	123	132	141	4	5	42	57
West North Central	5,678	5,760	-1.4%	1,914	1,824	3,702	3,877	10	7	52	52
Iowa	2,061	2,005	2.8%	1,276	1,163	775	836	3	2	7	4
Kansas	1,063	1,080	-1.6%	87	93	975	987	0	0	NM	0
Minnesota	1,246	1,237	0.8%	241	249	959	937	5	4	42	47
Missouri	138	144	-4.7%	4	4	133	140	NM	0	NM	0
Nebraska	321	380	-15.4%	27	31	292	347	2	1	0	0
North Dakota	599	664	-9.8%	222	208	376	456	0	0	2	0
South Dakota	250	250	0.0%	58	77	192	174	0	0	0	0
South Atlantic	1,877	1,775	5.7%	169	162	852	770	42	32	814	811
Delaware	11	10	18.9%	NM	0	9	7	NM	1	1	1
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	388	414	-6.4%	30	19	191	227	3	3	163	166
Georgia	377	373	0.9%	NM	0	69	67	3	2	304	305
Maryland	108	91	19.7%	NM	1	98	75	NM	2	7	13
North Carolina	352	216	63.1%	4	0	232	130	13	5	103	80
South Carolina	166	185	-9.9%	41	40	NM	27	0	0	97	118
Virginia	327	330	-0.8%	91	102	78	80	20	19	139	128
West Virginia	147	157	-6.4%	0	0	147	157	0	0	0	0
East South Central	532	451	18.0%	8	5	44	37	NM	0	480	409
Alabama	262	204	28.4%	NM	0	24	21	0	0	238	183
Kentucky	43	40	7.5%	8	5	NM	0	0	0	35	35
Mississippi	128	122	5.3%	0	0	NM	1	0	0	127	121
Tennessee	99	85	16.6%	0	0	19	15	NM	0	80	70
West South Central	6,924	5,768	20.0%	164	190	6,315	5,111	NM	8	437	459
Arkansas	135	136	-1.2%	0	0	10	9	NM	0	124	127
Louisiana	215	225	-4.5%	0	0	8	7	0	0	208	218
Oklahoma	1,623	1,217	33.3%	142	157	1,455	1,032	0	0	26	28
Texas	4,951	4,189	18.2%	22	33	4,842	4,064	NM	7	80	86
Mountain	2,816	2,920	-3.6%	318	336	2,454	2,555	9	6	34	22
Arizona	320	282	13.5%	37	31	282	250	NM	2	0	0
Colorado	692	837	-17.2%	13	18	677	818	NM	1	NM	0
Idaho	310	311	-0.2%	15	16	262	274	0	1	33	20
Montana	209	238	-12.2%	21	26	187	212	0	0	NM	1
Nevada	464	364	27.6%	NM	0	456	361	6	3	NM	0
New Mexico	269	272	-1.0%	10	9	259	263	NM	0	0	0
Utah	108	109	-1.5%	21	24	87	85	0	0	0	0
Wyoming	442	506	-12.7%	198	213	244	294	0	0	0	0
Pacific Contiguous	4,670	4,624	1.0%	600	610	3,756	3,754	94	77	220	183
California	3,251	3,061	6.2%	144	147	2,954	2,804	90	74	64	36
Oregon	646	755	-14.5%	89	99	509	602	2	2	46	52
Washington	773	808	-4.4%	367	364	293	348	2	1	111	95
Pacific Noncontiguous	143	119	20.4%	18	14	94	72	20	21	11	12
Alaska	22	19	20.7%	11	8	NM	4	5	5	NM	1
Hawaii	120	100	20.4%	7	5	88	68	15	16	10	11
U.S. Total	28,251	26,807	5.4%	3,710	3,564	21,906	20,701	285	245	2,350	2,298

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.11.B. Utility Scale Facility Net Generation from Renewable Sources Excluding Hydroelectric

by State, by Sector, Year-to-Date through November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	9,607	9,088	5.7%	810	822	7,400	6,554	182	178	1,215	1,534
Connecticut	748	698	7.2%	0	0	739	679	9	19	0	0
Maine	4,036	4,078	-1.0%	0	0	2,727	2,461	97	85	1,212	1,531
Massachusetts	1,940	1,595	21.7%	72	68	1,835	1,495	31	29	NM	3
New Hampshire	1,891	1,787	5.8%	289	314	1,565	1,438	36	35	0	0
Rhode Island	219	205	6.7%	0	0	212	198	7	7	0	0
Vermont	773	726	6.4%	449	440	321	283	NM	2	0	0
Middle Atlantic	12,928	12,801	1.0%	336	291	11,149	11,110	678	596	765	804
New Jersey	1,682	1,421	18.4%	91	39	1,273	1,125	317	256	NM	1
New York	5,891	5,908	-0.3%	245	252	5,206	5,226	215	194	224	237
Pennsylvania	5,355	5,471	-2.1%	0	0	4,670	4,759	146	146	539	566
East North Central	25,974	24,298	6.9%	3,318	2,699	20,851	19,727	244	248	1,560	1,624
Illinois	9,993	9,846	1.5%	13	12	9,977	9,830	NM	4	0	0
Indiana	4,495	3,586	25.4%	288	279	4,127	3,225	19	20	60	62
Michigan	6,633	6,031	10.0%	1,772	1,167	4,034	3,995	193	179	634	690
Ohio	1,872	1,847	1.3%	32	26	1,509	1,477	4	9	327	336
Wisconsin	2,981	2,989	-0.3%	1,212	1,214	1,204	1,200	25	37	539	537
West North Central	48,827	47,287	3.3%	15,720	13,962	32,422	32,611	112	135	573	579
Iowa	16,279	15,115	7.7%	9,604	8,258	6,566	6,737	29	31	81	89
Kansas	9,746	10,074	-3.3%	790	834	8,953	9,244	0	0	NM	-4
Minnesota	10,526	10,456	0.7%	2,087	2,114	7,917	7,795	41	58	481	489
Missouri	1,031	1,165	-11.5%	43	44	958	1,087	28	31	NM	3
Nebraska	2,924	2,502	16.9%	249	247	2,661	2,240	14	16	0	0
North Dakota	6,023	5,830	3.3%	2,341	1,837	3,676	3,990	0	0	6	2
South Dakota	2,298	2,145	7.1%	607	628	1,691	1,517	0	0	0	0
South Atlantic	20,720	19,637	5.5%	1,923	1,736	9,234	8,483	456	453	9,107	8,965
Delaware	133	121	9.4%	7	6	103	94	7	6	15	15
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	4,597	4,644	-1.0%	364	266	2,393	2,565	27	31	1,812	1,781
Georgia	4,103	3,900	5.2%	13	0	694	678	28	25	3,369	3,197
Maryland	1,004	895	12.1%	10	8	872	735	29	23	93	129
North Carolina	3,852	3,034	27.0%	11	6	2,597	1,858	154	152	1,090	1,019
South Carolina	2,053	2,245	-8.5%	409	427	324	292	0	0	1,320	1,526
Virginia	3,734	3,491	7.0%	1,108	1,022	1,006	956	212	215	1,408	1,298
West Virginia	1,244	1,307	-4.8%	0	0	1,244	1,307	0	0	0	0
East South Central	5,894	5,386	9.4%	83	85	460	386	4	3	5,347	4,912
Alabama	3,040	2,539	19.7%	NM	1	234	223	0	0	2,804	2,315
Kentucky	402	413	-2.7%	81	83	5	5	0	0	316	324
Mississippi	1,356	1,391	-2.5%	0	1	11	12	0	0	1,345	1,378
Tennessee	1,096	1,043	5.1%	0	0	210	146	4	3	882	894
West South Central	58,429	53,776	8.7%	1,672	1,821	51,870	46,969	67	57	4,820	4,929
Arkansas	1,372	1,386	-1.0%	0	0	91	88	4	4	1,276	1,294
Louisiana	2,496	2,541	-1.8%	0	0	80	77	0	0	2,416	2,464
Oklahoma	12,883	11,243	14.6%	1,293	1,540	11,311	9,409	0	0	279	294
Texas	41,679	38,606	8.0%	379	282	40,388	37,396	63	52	848	876
Mountain	27,221	27,112	0.4%	2,812	2,980	23,928	23,705	118	71	363	355
Arizona	3,918	3,644	7.5%	511	397	3,384	3,224	23	23	0	0
Colorado	6,981	7,068	-1.2%	123	158	6,835	6,894	20	12	NM	3
Idaho	2,816	3,195	-11.9%	135	158	2,334	2,696	0	4	347	338
Montana	1,768	1,778	-0.6%	195	213	1,562	1,553	0	0	11	12
Nevada	4,972	3,711	34.0%	NM	0	4,895	3,679	73	29	2	2
New Mexico	2,341	2,592	-9.7%	142	96	2,197	2,494	NM	3	0	0
Utah	1,159	1,150	0.7%	237	252	922	899	0	0	0	0
Wyoming	3,266	3,973	-17.8%	1,467	1,708	1,799	2,266	0	0	0	0
Pacific Contiguous	58,497	55,901	4.6%	7,090	7,148	48,041	45,379	1,022	1,014	2,345	2,361
California	43,102	39,167	10.0%	2,116	2,154	39,348	35,417	985	980	652	616
Oregon	7,279	8,338	-12.7%	1,220	1,350	5,531	6,388	21	18	508	581
Washington	8,116	8,396	-3.3%	3,754	3,644	3,162	3,573	16	16	1,185	1,164
Pacific Noncontiguous	1,330	1,305	2.0%	183	131	834	844	223	229	91	102
Alaska	195	197	-1.3%	96	92	45	48	49	51	4	6
Hawaii	1,136	1,107	2.5%	87	38	788	795	174	178	87	96
U.S. Total	269,427	256,591	5.0%	33,947	31,675	206,188	195,769	3,107	2,982	26,185	26,164

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.12.A. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power by State, by Sector, November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	-25	-33	-24.8%	0	0	-25	-33	0	0	0	0
Connecticut	0	3	-95.6%	0	0	0	3	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-25	-36	-30.2%	0	0	-25	-36	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	-76	-125	-39.4%	-34	-67	-42	-58	0	0	0	0
New Jersey	-9	-36	-74.4%	-9	-36	0	0	0	0	0	0
New York	-24	-31	-21.6%	-24	-31	0	0	0	0	0	0
Pennsylvania	-42	-58	-26.7%	0	0	-42	-58	0	0	0	0
East North Central	-21	-67	-68.6%	-21	-67	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	-21	-67	-68.6%	-21	-67	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	1	-2	-145.0%	1	-2	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	1	-2	-145.0%	1	-2	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	-92	-236	-60.9%	-92	-236	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	8	-98	-108.3%	8	-98	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	28	-100.0%	0	28	0	0	0	0	0	0
South Carolina	-50	-67	-24.5%	-50	-67	0	0	0	0	0	0
Virginia	-50	-99	-49.3%	-50	-99	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-27	-38	-29.4%	-27	-38	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	-27	-38	-29.4%	-27	-38	0	0	0	0	0	0
West South Central	-4	-5	-4.4%	-4	-5	0	0	0	0	0	0
Arkansas	0	0	-28.3%	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-5	-5	-6.4%	-5	-5	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-20	-29	-32.6%	-20	-29	0	0	0	0	0	0
Arizona	-2	-7	-68.1%	-2	-7	0	0	0	0	0	0
Colorado	-18	-22	-21.3%	-18	-22	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	-22	4	-649.2%	-22	4	0	0	0	0	0	0
California	-27	4	-714.9%	-27	4	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	6	-1	NM	6	-1	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-285	-531	-46.3%	-218	-441	-67	-90	0	0	0	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.12.B. Utility Scale Facility Net Generation from Hydroelectric (Pumped Storage) Power

by State, by Sector, Year-to-Date through November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	-441	-418	5.5%	0	0	-441	-418	0	0	0	0
Connecticut	-4	3	-219.8%	0	0	-4	3	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	-436	-421	3.7%	0	0	-436	-421	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	-1,027	-1,221	-15.9%	-550	-679	-477	-542	0	0	0	0
New Jersey	-160	-220	-27.3%	-160	-220	0	0	0	0	0	0
New York	-389	-459	-15.1%	-389	-459	0	0	0	0	0	0
Pennsylvania	-477	-542	-11.9%	0	0	-477	-542	0	0	0	0
East North Central	-449	-658	-31.7%	-449	-658	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	-449	-658	-31.7%	-449	-658	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	271	10	NM	271	10	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	271	10	NM	271	10	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	-2,516	-2,697	-6.7%	-2,516	-2,697	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	-826	-698	18.3%	-826	-698	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	169	59	186.1%	169	59	0	0	0	0	0	0
South Carolina	-906	-825	9.8%	-906	-825	0	0	0	0	0	0
Virginia	-953	-1,233	-22.7%	-953	-1,233	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	-483	-454	6.3%	-483	-454	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	-483	-454	6.3%	-483	-454	0	0	0	0	0	0
West South Central	-41	-35	16.7%	-41	-35	0	0	0	0	0	0
Arkansas	29	66	-56.0%	29	66	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	-70	-101	-30.8%	-70	-101	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	-181	-181	-0.1%	-181	-181	0	0	0	0	0	0
Arizona	75	21	263.1%	75	21	0	0	0	0	0	0
Colorado	-256	-201	26.9%	-256	-201	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	163	-41	-499.1%	163	-41	0	0	0	0	0	0
California	126	-36	-447.5%	126	-36	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	38	-5	-887.9%	38	-5	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	-4,702	-5,694	-17.4%	-3,785	-4,735	-918	-959	0	0	0	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.13.A. Utility Scale Facility Net Generation from Other Energy Sources by State, by Sector, November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	162	167	-2.6%	0	0	145	146	NM	9	10	11
Connecticut	52	52	-1.1%	0	0	52	51	0	1	0	0
Maine	32	34	-6.0%	0	0	15	16	NM	7	10	11
Massachusetts	74	76	-3.0%	0	0	74	76	0	0	0	0
New Hampshire	5	4	14.0%	0	0	5	4	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	202	220	-8.4%	0	2	163	170	39	39	0	9
New Jersey	45	57	-19.9%	0	0	34	36	12	12	0	9
New York	77	81	-4.4%	0	2	59	61	17	18	0	0
Pennsylvania	79	83	-4.5%	0	0	70	74	10	10	0	0
East North Central	100	101	-0.6%	3	7	13	12	19	17	66	65
Illinois	22	25	-12.9%	0	0	0	0	0	0	22	25
Indiana	38	35	10.3%	0	0	0	0	NM	2	37	33
Michigan	32	35	-7.2%	NM	5	13	13	17	15	1	2
Ohio	1	0	-376.5%	0	0	0	-1	0	0	1	1
Wisconsin	NM	6	NM	2	3	0	0	0	0	NM	3
West North Central	40	36	9.0%	20	18	12	12	NM	1	NM	5
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	NM	0	NM	0	0	0	0	0	0	NM	0
Minnesota	33	33	0.3%	14	15	12	12	NM	1	NM	5
Missouri	4	1	483.5%	4	1	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	2	2	-1.3%	2	2	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	330	351	-5.9%	14	0	182	180	18	17	116	153
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	215	222	-3.1%	14	0	101	103	0	0	100	119
Georgia	13	0	NM	0	0	0	0	0	0	13	0
Maryland	27	26	5.6%	0	0	27	26	NM	0	0	0
North Carolina	28	58	-51.9%	0	0	28	29	0	0	0	29
South Carolina	4	5	-33.2%	0	0	NM	0	0	0	3	5
Virginia	43	40	10.0%	0	0	26	22	18	17	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	10	12	-15.1%	8	10	0	0	0	0	2	2
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	8	10	-20.0%	8	10	0	0	0	0	0	0
Mississippi	NM	0	NM	0	0	0	0	0	0	NM	0
Tennessee	2	2	-2.9%	0	0	0	0	0	0	2	2
West South Central	119	116	3.3%	0	0	NM	2	0	0	118	113
Arkansas	1	2	-33.1%	0	0	0	0	0	0	1	2
Louisiana	43	47	-8.3%	0	0	0	0	0	0	43	47
Oklahoma	NM	0	NM	0	0	0	0	0	0	NM	0
Texas	74	67	9.4%	0	0	NM	2	0	0	72	65
Mountain	39	43	-11.0%	NM	1	21	27	0	0	17	15
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	NM	3	NM	0	0	NM	0	0	0	NM	3
Idaho	0	6	-100.0%	0	0	0	0	0	0	0	6
Montana	20	26	-22.9%	0	0	20	26	0	0	0	0
Nevada	NM	1	NM	NM	1	0	0	0	0	0	0
New Mexico	0	0	-100.0%	0	0	0	0	0	0	0	0
Utah	14	0	NM	0	0	NM	0	0	0	14	0
Wyoming	0	7	-100.0%	0	0	0	0	0	0	0	7
Pacific Contiguous	85	82	3.2%	0	0	27	28	0	0	58	54
California	75	67	11.4%	0	0	17	19	0	0	58	49
Oregon	4	4	6.3%	0	0	4	4	0	0	0	0
Washington	6	11	-46.6%	0	0	6	5	0	0	0	6
Pacific Noncontiguous	15	33	-53.7%	0	17	1	1	15	15	0	0
Alaska	0	0	-100.0%	0	0	0	0	0	0	0	0
Hawaii	15	33	-54.0%	0	17	1	1	15	15	0	0
U.S. Total	1,102	1,161	-5.1%	46	55	565	578	100	98	392	429

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.13.B. Utility Scale Facility Net Generation from Other Energy Sources

by State, by Sector, Year-to-Date through November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	1,728	1,772	-2.5%	0	0	1,509	1,557	92	96	127	119
Connecticut	523	554	-5.6%	0	0	516	537	7	17	0	0
Maine	350	367	-4.6%	0	0	139	169	85	79	127	119
Massachusetts	806	805	0.1%	0	0	806	805	0	0	0	0
New Hampshire	49	45	6.8%	0	0	49	45	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	2,178	2,248	-3.1%	10	29	1,748	1,727	420	400	0	93
New Jersey	477	580	-17.9%	0	0	345	358	131	129	0	93
New York	851	852	-0.1%	10	29	646	643	195	180	0	0
Pennsylvania	850	816	4.2%	0	0	757	725	93	90	0	0
East North Central	1,086	1,042	4.3%	47	84	150	129	199	182	691	647
Illinois	248	256	-3.1%	0	0	1	0	0	0	247	256
Indiana	386	359	7.3%	0	29	0	0	17	18	369	313
Michigan	362	372	-2.7%	21	30	140	139	182	165	19	39
Ohio	16	-3	-562.0%	0	0	9	-10	0	0	7	6
Wisconsin	75	58	29.7%	26	25	0	0	0	0	49	33
West North Central	455	420	8.5%	239	213	128	122	32	29	56	56
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	NM	0	NM	0	0	0	0	0	0	NM	0
Minnesota	374	366	2.2%	160	160	128	122	32	29	53	56
Missouri	52	25	109.0%	52	25	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	27	29	-6.9%	27	29	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	3,878	4,083	-5.0%	98	0	2,015	2,020	191	196	1,574	1,867
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	2,720	2,654	2.5%	98	0	1,176	1,180	0	0	1,445	1,474
Georgia	87	67	31.2%	0	0	0	0	0	0	87	67
Maryland	291	288	1.0%	0	0	290	288	NM	0	0	0
North Carolina	311	578	-46.2%	0	0	311	287	0	0	0	291
South Carolina	47	40	17.6%	0	0	NM	4	0	0	41	36
Virginia	422	457	-7.6%	0	0	232	261	190	196	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	66	54	22.5%	42	37	0	0	0	0	23	17
Alabama	0	NM	NM	0	0	0	0	0	0	0	NM
Kentucky	42	37	15.7%	42	37	0	0	0	0	0	0
Mississippi	NM	4	NM	0	0	0	0	0	0	NM	4
Tennessee	19	12	54.2%	0	0	0	0	0	0	19	12
West South Central	1,149	777	48.0%	0	0	14	9	0	0	1,135	767
Arkansas	11	12	-1.5%	0	0	0	0	0	0	11	12
Louisiana	399	480	-17.0%	0	0	0	0	0	0	399	480
Oklahoma	16	-2	-778.9%	0	0	0	0	0	0	16	-2
Texas	723	287	152.2%	0	0	14	9	0	0	709	278
Mountain	423	548	-22.8%	13	14	290	243	0	0	121	290
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	38	43	-12.1%	0	0	NM	4	0	0	35	39
Idaho	0	69	-100.0%	0	0	0	0	0	0	0	69
Montana	284	236	20.4%	0	0	284	236	0	0	0	0
Nevada	12	14	-10.6%	12	14	0	0	0	0	0	0
New Mexico	NM	1	NM	NM	1	0	0	0	0	0	0
Utah	89	118	-24.5%	0	0	NM	3	0	0	86	114
Wyoming	0	68	-100.0%	0	0	0	0	0	0	0	68
Pacific Contiguous	963	933	3.1%	NM	-1	299	297	0	0	663	637
California	815	775	5.2%	NM	-1	191	197	0	0	624	579
Oregon	43	39	8.2%	0	0	43	39	0	0	0	0
Washington	105	119	-11.8%	0	0	66	61	0	0	39	58
Pacific Noncontiguous	176	368	-52.1%	NM	190	7	7	167	171	0	0
Alaska	NM	-2	NM	NM	-2	0	0	0	0	0	0
Hawaii	174	370	-52.8%	0	192	7	7	167	171	0	0
U.S. Total	12,102	12,244	-1.2%	452	566	6,162	6,109	1,101	1,074	4,389	4,494

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.14.A. Utility Scale Facility Net Generation from Wind by State, by Sector, November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	263	225	17.3%	26	26	233	195	NM	3	NM	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	164	126	30.7%	0	0	164	126	0	0	0	0
Massachusetts	24	22	5.0%	6	6	14	14	NM	2	NM	0
New Hampshire	43	42	1.0%	0	0	43	42	0	0	0	0
Rhode Island	NM	1	NM	0	0	NM	0	NM	1	0	0
Vermont	32	33	-5.2%	20	20	12	13	0	0	0	0
Middle Atlantic	778	871	-10.7%	0	0	777	871	0	0	NM	0
New Jersey	NM	3	NM	0	0	NM	3	0	0	0	0
New York	414	472	-12.3%	0	0	413	471	0	0	NM	0
Pennsylvania	362	397	-8.8%	0	0	362	397	0	0	0	0
East North Central	2,791	2,564	8.8%	347	279	2,439	2,279	NM	1	NM	5
Illinois	1,368	1,285	6.5%	NM	2	1,367	1,282	NM	0	0	0
Indiana	554	507	9.4%	0	0	554	507	NM	0	0	0
Michigan	533	457	16.6%	219	168	314	289	0	0	0	0
Ohio	140	145	-3.4%	NM	2	135	139	0	0	NM	4
Wisconsin	196	171	14.2%	125	108	70	62	0	0	NM	1
West North Central	5,483	5,567	-1.5%	1,870	1,782	3,610	3,781	NM	4	0	0
Iowa	2,039	1,992	2.4%	1,274	1,161	765	830	NM	0	0	0
Kansas	1,056	1,075	-1.8%	87	93	969	982	0	0	0	0
Minnesota	1,098	1,075	2.1%	209	217	886	855	NM	3	0	0
Missouri	130	137	-5.5%	0	0	130	137	0	0	0	0
Nebraska	313	375	-16.5%	21	27	292	347	0	0	0	0
North Dakota	597	664	-10.0%	222	208	376	456	0	0	0	0
South Dakota	250	250	0.0%	58	77	192	174	0	0	0	0
South Atlantic	200	194	3.3%	0	0	200	193	NM	1	0	0
Delaware	NM	1	NM	0	0	0	0	NM	1	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	53	37	45.4%	0	0	53	37	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	147	157	-6.4%	0	0	147	157	0	0	0	0
East South Central	5	6	-20.8%	0	0	5	6	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	5	6	-20.8%	0	0	5	6	0	0	0	0
West South Central	6,387	5,182	23.3%	164	182	6,220	4,996	NM	4	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	1,596	1,188	34.4%	142	157	1,454	1,030	0	0	0	0
Texas	4,792	3,994	20.0%	22	25	4,767	3,965	NM	4	0	0
Mountain	1,922	2,177	-11.7%	247	272	1,674	1,904	NM	0	NM	0
Arizona	54	53	1.1%	0	0	54	53	0	0	0	0
Colorado	660	810	-18.5%	13	18	646	792	0	0	NM	0
Idaho	251	265	-5.5%	14	16	237	250	0	0	0	0
Montana	208	237	-12.3%	21	26	187	212	0	0	0	0
Nevada	30	25	21.0%	0	0	30	25	0	0	0	0
New Mexico	224	224	0.2%	0	0	224	224	NM	0	0	0
Utah	52	56	-5.8%	0	0	52	56	0	0	0	0
Wyoming	442	506	-12.7%	198	213	244	294	0	0	0	0
Pacific Contiguous	1,779	2,018	-11.8%	429	462	1,350	1,555	NM	0	NM	0
California	636	705	-9.8%	20	28	615	677	NM	0	NM	0
Oregon	535	635	-15.7%	82	93	453	541	0	0	0	0
Washington	609	679	-10.3%	327	341	282	338	0	0	0	0
Pacific Noncontiguous	84	63	33.8%	11	8	73	55	0	0	0	0
Alaska	17	13	29.9%	11	8	NM	4	0	0	0	0
Hawaii	68	50	34.8%	0	0	68	50	0	0	0	0
U.S. Total	19,693	18,867	4.4%	3,094	3,012	16,582	15,835	12	13	NM	6

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.14.B. Utility Scale Facility Net Generation from Wind

by State, by Sector, Year-to-Date through November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	2,028	1,887	7.5%	242	233	1,751	1,621	32	30	NM	3
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	1,138	1,005	13.3%	0	0	1,138	1,005	0	0	0	0
Massachusetts	198	208	-4.8%	53	58	117	125	25	23	NM	3
New Hampshire	382	378	1.0%	0	0	382	378	0	0	0	0
Rhode Island	13	9	44.5%	0	0	NM	2	7	7	0	0
Vermont	297	287	3.4%	189	175	108	112	0	0	0	0
Middle Atlantic	6,566	6,842	-4.0%	0	0	6,563	6,840	0	0	NM	2
New Jersey	20	21	-4.0%	0	0	20	21	0	0	0	0
New York	3,556	3,637	-2.2%	0	0	3,553	3,635	0	0	NM	2
Pennsylvania	2,990	3,184	-6.1%	0	0	2,990	3,184	0	0	0	0
East North Central	20,167	18,394	9.6%	2,738	2,141	17,388	16,210	NM	5	36	39
Illinois	9,421	9,254	1.8%	12	12	9,405	9,238	NM	4	0	0
Indiana	3,936	3,130	25.8%	0	0	3,935	3,129	NM	1	0	0
Michigan	4,285	3,462	23.8%	1,772	1,167	2,513	2,295	0	0	0	0
Ohio	1,056	1,051	0.5%	13	13	1,014	1,006	0	0	30	32
Wisconsin	1,468	1,497	-2.0%	941	949	520	542	0	0	6	7
West North Central	46,702	45,198	3.3%	15,258	13,520	31,416	31,646	29	31	0	0
Iowa	16,041	14,866	7.9%	9,580	8,236	6,459	6,628	NM	3	0	0
Kansas	9,683	10,015	-3.3%	790	834	8,893	9,181	0	0	0	0
Minnesota	8,882	8,847	0.4%	1,736	1,782	7,120	7,038	26	28	0	0
Missouri	917	1,053	-12.9%	0	0	917	1,053	0	0	0	0
Nebraska	2,865	2,444	17.3%	204	204	2,661	2,240	0	0	0	0
North Dakota	6,017	5,827	3.3%	2,341	1,837	3,676	3,990	0	0	0	0
South Dakota	2,298	2,145	7.1%	607	628	1,691	1,517	0	0	0	0
South Atlantic	1,623	1,584	2.4%	0	0	1,618	1,579	NM	5	0	0
Delaware	NM	5	NM	0	0	0	0	NM	5	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	378	277	36.6%	0	0	378	277	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	1,240	1,303	-4.8%	0	0	1,240	1,303	0	0	0	0
East South Central	38	47	-18.0%	0	0	38	47	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	38	47	-18.0%	0	0	38	47	0	0	0	0
West South Central	52,268	47,618	9.8%	1,546	1,813	50,692	45,785	29	20	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	12,589	10,935	15.1%	1,292	1,540	11,297	9,395	0	0	0	0
Texas	39,679	36,683	8.2%	254	274	39,395	36,390	29	20	0	0
Mountain	16,735	18,437	-9.2%	1,912	2,225	14,814	16,205	NM	3	NM	3
Arizona	392	439	-10.7%	0	0	392	439	0	0	0	0
Colorado	6,595	6,709	-1.7%	123	155	6,466	6,550	NM	0	NM	3
Idaho	2,181	2,584	-15.6%	127	150	2,054	2,434	0	0	0	0
Montana	1,756	1,766	-0.5%	195	213	1,562	1,553	0	0	0	0
Nevada	277	264	4.9%	0	0	277	264	0	0	0	0
New Mexico	1,706	2,094	-18.5%	0	0	1,704	2,091	NM	3	0	0
Utah	560	608	-7.9%	0	0	560	608	0	0	0	0
Wyoming	3,266	3,973	-17.8%	1,467	1,708	1,799	2,266	0	0	0	0
Pacific Contiguous	23,793	26,264	-9.4%	5,173	5,375	18,611	20,884	NM	3	NM	2
California	11,297	12,427	-9.1%	668	809	10,620	11,613	NM	3	NM	2
Oregon	6,102	7,102	-14.1%	1,150	1,286	4,951	5,816	0	0	0	0
Washington	6,395	6,735	-5.1%	3,355	3,280	3,040	3,455	0	0	0	0
Pacific Noncontiguous	682	674	1.1%	96	92	586	582	0	0	0	0
Alaska	141	140	0.6%	96	92	45	48	0	0	0	0
Hawaii	540	534	1.2%	0	0	540	534	0	0	0	0
U.S. Total	170,602	166,944	2.2%	26,965	25,400	143,477	141,400	109	96	50	48

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.15.A. Utility Scale Facility Net Generation from Biomass by State, by Sector, November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	611	672	-9.1%	48	54	460	483	11	13	92	122
Connecticut	65	74	-11.4%	0	0	65	72	0	2	0	0
Maine	260	287	-9.2%	0	0	160	157	8	8	92	122
Massachusetts	101	103	-1.3%	0	0	101	102	NM	NM	0	0
New Hampshire	130	152	-14.3%	23	31	104	118	3	3	0	0
Rhode Island	16	19	-14.0%	0	0	16	19	0	0	0	0
Vermont	38	39	-3.0%	24	23	NM	15	NM	0	0	0
Middle Atlantic	516	489	5.6%	27	21	365	346	49	47	74	75
New Jersey	85	84	1.5%	0	0	70	69	15	14	0	0
New York	215	206	4.1%	27	21	145	146	19	19	23	21
Pennsylvania	216	199	8.8%	0	0	150	131	15	14	51	54
East North Central	493	481	2.6%	59	38	280	272	24	23	130	148
Illinois	46	31	48.0%	0	0	46	31	0	0	0	0
Indiana	34	31	8.1%	26	23	NM	2	2	2	6	5
Michigan	202	231	-12.4%	NM	0	130	151	18	16	55	64
Ohio	70	32	115.2%	NM	0	41	10	0	0	28	22
Wisconsin	141	155	-8.8%	33	15	62	78	4	5	42	57
West North Central	192	191	0.6%	45	41	90	95	6	3	52	52
Iowa	22	13	64.3%	2	2	10	6	3	2	7	4
Kansas	6	5	25.0%	0	0	5	5	0	0	NM	0
Minnesota	149	161	-7.9%	32	32	73	82	2	0	42	47
Missouri	6	6	-3.4%	4	4	2	2	0	0	NM	0
Nebraska	8	5	63.9%	7	4	0	0	2	1	0	0
North Dakota	2	0	619.4%	0	0	0	0	0	0	2	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,488	1,502	-0.9%	154	150	485	514	34	26	814	811
Delaware	6	6	3.0%	0	0	5	5	0	0	1	1
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	373	401	-7.0%	22	8	185	224	3	3	163	166
Georgia	365	365	-0.1%	0	0	58	59	2	2	304	305
Maryland	44	48	-7.6%	0	0	35	33	NM	2	7	13
North Carolina	206	167	23.7%	0	0	97	86	6	1	103	80
South Carolina	166	185	-10.0%	41	40	NM	27	0	0	97	118
Virginia	327	330	-0.8%	91	102	78	80	20	19	139	128
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	520	440	18.1%	8	5	33	26	0	0	480	409
Alabama	262	204	28.4%	NM	0	24	21	0	0	238	183
Kentucky	43	40	7.5%	8	5	NM	0	0	0	35	35
Mississippi	128	122	5.3%	0	0	NM	1	0	0	127	121
Tennessee	87	75	16.4%	0	0	7	5	0	0	80	70
West South Central	511	561	-8.9%	0	8	69	90	4	3	437	459
Arkansas	135	136	-1.2%	0	0	10	9	NM	0	124	127
Louisiana	215	225	-4.5%	0	0	8	7	0	0	208	218
Oklahoma	27	30	-8.4%	0	0	1	2	0	0	26	28
Texas	133	169	-21.1%	0	8	50	73	4	3	80	86
Mountain	95	77	22.3%	2	2	58	53	0	1	34	21
Arizona	21	20	9.2%	2	2	20	18	0	0	0	0
Colorado	NM	10	NM	0	0	NM	10	0	0	0	0
Idaho	51	38	33.6%	NM	1	18	17	0	1	33	20
Montana	NM	1	NM	0	0	0	0	0	0	NM	1
Nevada	2	2	5.0%	0	0	2	2	0	0	0	0
New Mexico	1	1	2.6%	0	0	1	1	0	0	0	0
Utah	6	6	3.3%	0	0	6	6	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	825	750	10.0%	59	44	463	456	84	68	219	182
California	572	521	9.8%	13	16	415	405	81	65	62	36
Oregon	89	100	-10.6%	6	5	36	41	2	2	46	52
Washington	164	130	26.5%	40	23	11	11	2	1	111	95
Pacific Noncontiguous	34	36	-6.0%	3	3	0	0	20	21	11	12
Alaska	6	6	-0.2%	0	0	0	0	5	5	NM	1
Hawaii	28	30	-7.0%	3	3	0	0	15	16	10	11
U.S. Total	5,284	5,198	1.6%	405	367	2,304	2,336	233	205	2,343	2,290

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.15.B. Utility Scale Facility Net Generation from Biomass

by State, by Sector, Year-to-Date through November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	6,848	6,873	-0.4%	550	579	4,942	4,619	145	143	1,212	1,531
Connecticut	727	687	5.8%	0	0	718	668	9	19	0	0
Maine	2,898	3,073	-5.7%	0	0	1,589	1,456	97	85	1,212	1,531
Massachusetts	1,107	1,100	0.7%	0	0	1,107	1,099	NM	NM	0	0
New Hampshire	1,509	1,409	7.1%	289	314	1,183	1,060	36	35	0	0
Rhode Island	193	187	3.2%	0	0	193	187	0	0	0	0
Vermont	414	418	-0.9%	260	265	152	150	NM	2	0	0
Middle Atlantic	5,410	5,340	1.3%	245	252	3,906	3,806	508	490	750	793
New Jersey	889	909	-2.2%	0	0	732	755	156	153	0	0
New York	2,238	2,204	1.5%	245	252	1,558	1,524	212	194	221	234
Pennsylvania	2,283	2,227	2.5%	0	0	1,615	1,527	140	142	529	558
East North Central	5,474	5,709	-4.1%	555	548	3,163	3,334	236	241	1,521	1,586
Illinois	513	544	-5.7%	0	0	513	544	0	0	0	0
Indiana	359	360	-0.2%	275	278	6	2	18	18	60	62
Michigan	2,347	2,569	-8.6%	NM	0	1,520	1,700	193	179	634	690
Ohio	744	746	-0.2%	8	4	442	432	0	6	294	304
Wisconsin	1,511	1,491	1.4%	271	265	682	657	25	37	533	531
West North Central	2,098	2,079	0.9%	463	441	979	954	82	104	573	579
Iowa	238	249	-4.5%	24	22	107	110	26	28	81	89
Kansas	61	59	3.2%	0	0	58	63	0	0	NM	-4
Minnesota	1,641	1,606	2.2%	351	332	794	755	15	30	481	489
Missouri	93	103	-10.5%	43	44	20	26	27	31	NM	3
Nebraska	59	59	0.3%	45	43	0	0	14	16	0	0
North Dakota	6	2	167.2%	0	0	0	0	0	0	6	2
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	16,864	16,895	-0.2%	1,714	1,539	5,688	6,023	356	367	9,107	8,965
Delaware	70	70	-0.6%	0	0	54	55	0	0	15	15
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	4,356	4,418	-1.4%	196	90	2,322	2,517	25	30	1,812	1,781
Georgia	3,968	3,788	4.8%	0	0	575	568	24	22	3,369	3,197
Maryland	495	523	-5.5%	0	0	378	375	24	20	93	129
North Carolina	2,190	2,359	-7.2%	0	0	1,029	1,261	71	80	1,090	1,019
South Carolina	2,048	2,240	-8.6%	409	427	319	287	0	0	1,320	1,526
Virginia	3,734	3,491	7.0%	1,108	1,022	1,006	956	212	215	1,408	1,298
West Virginia	4	4	1.1%	0	0	4	4	0	0	0	0
East South Central	5,756	5,315	8.3%	83	85	326	318	0	0	5,347	4,912
Alabama	3,040	2,539	19.7%	NM	1	234	223	0	0	2,804	2,315
Kentucky	402	413	-2.7%	81	83	5	5	0	0	316	324
Mississippi	1,356	1,391	-2.5%	0	1	11	12	0	0	1,345	1,378
Tennessee	958	973	-1.5%	0	0	76	79	0	0	882	894
West South Central	5,775	5,892	-2.0%	125	8	795	921	35	34	4,820	4,929
Arkansas	1,372	1,386	-1.0%	0	0	91	88	4	4	1,276	1,294
Louisiana	2,496	2,541	-1.8%	0	0	80	77	0	0	2,416	2,464
Oklahoma	293	309	-4.9%	0	0	14	14	0	0	279	294
Texas	1,614	1,657	-2.6%	125	8	610	743	31	30	848	876
Mountain	990	980	1.1%	26	30	606	596	0	4	358	350
Arizona	216	209	3.4%	18	19	197	190	0	0	0	0
Colorado	118	117	0.8%	0	3	118	114	0	0	0	0
Idaho	545	540	0.9%	8	8	191	190	0	4	347	338
Montana	11	12	-3.5%	0	0	0	0	0	0	11	12
Nevada	22	22	-0.9%	0	0	22	22	0	0	0	0
New Mexico	13	13	-3.2%	0	0	13	13	0	0	0	0
Utah	65	66	-2.2%	0	0	65	66	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	9,040	9,044	0.0%	627	594	5,187	5,171	892	924	2,334	2,355
California	6,329	6,335	-0.1%	170	173	4,663	4,661	855	890	641	610
Oregon	990	1,049	-5.6%	59	58	402	392	21	18	508	581
Washington	1,721	1,660	3.6%	398	363	122	118	16	16	1,185	1,164
Pacific Noncontiguous	364	360	1.1%	50	29	0	0	223	229	91	102
Alaska	53	57	-6.0%	0	0	0	0	49	51	4	6
Hawaii	310	303	2.4%	50	29	0	0	174	178	87	96
U.S. Total	58,619	58,486	0.2%	4,438	4,105	25,591	25,744	2,478	2,536	26,112	26,100

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.16.A. Utility Scale Facility Net Generation from Geothermal by State, by Sector, November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	0	0	--	0	0	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	0	0	--	0	0	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	0	0	--	0	0	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	0	0	--	0	0	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	362	302	20.1%	21	24	342	277	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	NM	7	NM	0	0	NM	7	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	308	246	25.0%	0	0	308	246	0	0	0	0
New Mexico	NM	1	NM	0	0	NM	1	0	0	0	0
Utah	45	48	-4.7%	21	24	25	23	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	1,004	1,046	-3.9%	74	69	931	976	0	0	0	0
California	985	1,027	-4.1%	72	69	913	958	0	0	0	0
Oregon	20	19	4.6%	NM	0	18	19	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	18	15	15.8%	0	0	18	15	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	18	15	15.8%	0	0	18	15	0	0	0	0
U.S. Total	1,384	1,362	1.6%	94	93	1,290	1,269	0	0	0	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.16.B. Utility Scale Facility Net Generation from Geothermal

by State, by Sector, Year-to-Date through November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	0	0	--	0	0	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	0	0	--	0	0	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	0	0	--	0	0	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	0	0	--	0	0	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	0	0	--	0	0	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	3,697	3,026	22.2%	237	252	3,460	2,774	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	90	72	25.3%	0	0	90	72	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	3,084	2,473	24.7%	0	0	3,084	2,473	0	0	0	0
New Mexico	12	8	53.8%	0	0	12	8	0	0	0	0
Utah	510	474	7.7%	237	252	273	222	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	11,498	11,242	2.3%	756	773	10,742	10,469	0	0	0	0
California	11,341	11,078	2.4%	753	773	10,588	10,305	0	0	0	0
Oregon	157	164	-4.6%	NM	0	154	164	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	210	234	-10.4%	0	0	210	234	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	210	234	-10.4%	0	0	210	234	0	0	0	0
U.S. Total	15,404	14,502	6.2%	993	1,024	14,411	13,478	0	0	0	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.17.A. Net Generation from Solar Photovoltaic
by State, by Sector, November 2015 and 2014 (Thousand Megawatthours)

	All Sectors							Electric Power Sector				Commercial Sector						Industrial Sector						Residential Sector	
								Electric Utilities		Independent Power Producers															
	Estimated Net Generation From Utility Scale Facilities and Distributed Solar Photovoltaic Generation			Generation at Utility Scale Facilities		Estimated Distributed Solar Photovoltaic Generation		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Estimated Net Generation From Utility Scale Facilities and Distributed		Generation at Utility Scale Facilities		Estimated Distributed Solar Photovoltaic Generation		Estimated Net Generation From Utility Scale Facilities and Distributed		Generation at Utility Scale Facilities		Estimated Distributed Solar Photovoltaic Generation		Estimated Distributed Solar Photovoltaic Generation	
Census Division and State	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	112	75	49.7%	56	32	56	43	NM	1	54	30	NM	NM	NM	NM	34	29	2	2	0	0	2	2	20	13
Connecticut	NM	8	NM	NM	1	11	7	0	0	NM	1	5	3	0	0	5	3	0	0	0	0	0	0	6	3
Maine	1	1	57.6%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	NM	0	0	0	NM	1	0
Massachusetts	87	60	45.3%	49	28	38	32	NM	1	47	26	NM	NM	NM	NM	27	24	2	1	0	0	2	1	10	7
New Hampshire	1	1	92.2%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Rhode Island	NM	1	NM	NM	1	1	1	0	0	NM	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0
Vermont	8	4	96.9%	5	2	3	2	0	0	5	2	1	0	0	0	1	0	0	0	0	0	0	0	2	1
Middle Atlantic	182	138	31.6%	76	42	106	96	7	3	54	31	77	68	13	7	63	61	NM	7	NM	1	7	7	35	29
New Jersey	128	99	29.2%	61	33	67	66	7	3	42	24	60	54	13	7	47	47	NM	4	NM	0	4	4	15	15
New York	35	23	49.6%	8	5	27	19	0	0	8	5	NM	9	NM	0	11	9	1	0	0	0	1	0	15	10
Pennsylvania	19	16	20.2%	7	4	12	12	0	0	5	3	NM	5	NM	0	5	5	NM	3	NM	1	3	3	4	4
East North Central	39	25	54.1%	29	17	10	8	NM	1	25	16	NM	6	NM	0	7	6	NM	0	NM	0	0	0	3	2
Illinois	6	5	22.7%	5	4	1	1	NM	0	5	4	1	1	0	0	1	1	NM	NM	0	0	NM	NM	0	0
Indiana	19	9	103.6%	18	9	1	1	NM	0	16	8	0	0	0	0	0	0	NM	NM	0	0	NM	NM	0	0
Michigan	NM	2	NM	NM	0	2	2	NM	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0
Ohio	11	8	29.0%	6	4	5	4	NM	1	4	3	NM	3	NM	0	4	3	NM	0	NM	0	0	0	1	1
Wisconsin	NM	1	NM	NM	0	1	1	0	0	NM	0	1	1	0	0	1	1	NM	0	0	0	NM	0	1	0
West North Central	NM	13	NM	NM	1	13	12	0	0	NM	1	NM	7	NM	0	8	7	0	0	0	0	0	0	5	5
Iowa	2	2	26.2%	0	0	2	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	1	1
Kansas	NM	0	NM	NM	0	0	0	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minnesota	NM	1	NM	NM	0	2	1	0	0	NM	0	1	1	0	0	1	1	0	0	0	0	0	0	1	1
Missouri	NM	9	NM	NM	1	9	8	0	0	NM	1	NM	5	NM	0	5	5	0	0	0	0	0	0	4	3
Nebraska	0	0	37.1%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NM	0	0	0	NM	0	0	0
North Dakota	0	0	-11.9%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	0	0	2.1%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	235	114	106.7%	185	74	50	40	11	6	166	63	38	32	7	5	31	27	2	1	0	0	2	1	17	13
Delaware	9	7	27.6%	5	3	4	4	NM	0	4	2	NM	3	NM	0	3	3	0	0	0	0	0	0	1	1
District of Columbia	2	2	-0.9%	0	0	2	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	1	0	0
Florida	24	16	52.3%	11	8	12	8	4	4	7	3	NM	4	NM	0	6	4	0	0	0	0	0	0	6	4
Georgia	18	14	30.7%	12	8	6	6	NM	0	11	8	NM	6	NM	0	5	5	0	0	0	0	0	0	0	0
Maryland	28	20	39.2%	11	6	17	14	NM	1	10	5	NM	9	NM	0	9	9	1	0	0	0	1	0	7	5
North Carolina	152	54	182.6%	145	49	7	5	4	0	135	44	11	9	6	4	5	4	0	0	0	0	0	0	1	1
South Carolina	NM	1	NM	NM	0	1	0	0	0	NM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Virginia	2	2	42.7%	0	0	2	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	1	1
West Virginia	0	0	23.5%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
East South Central	12	9	35.5%	7	4	5	5	0	0	7	4	NM	5	NM	0	5	5	0	0	0	0	0	0	0	0
Alabama	0	0	2.4%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kentucky	1	1	9.7%	0	0	1	1	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0
Mississippi	0	0	4.6%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	NM
Tennessee	11	8	39.5%	7	4	4	4	0	0	7	4	NM	4	NM	0	4	4	0	0	0	0	0	0	0	0
West South Central	53	45	17.5%	26	26	27	20	0	0	25	26	NM	5	NM	0	7	5	0	0	0	0	0	0	21	15
Arkansas	0	0	17.1%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Louisiana	12	8	50.3%	0	0	12	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	8
Oklahoma	1	0	175.8%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Texas	40	37	9.5%	26	26	15	11	0	0	25	26	NM	5	NM	0	6	4	0	0	0	0	0	0	9	6
Mountain	531	447	18.6%	383	325	147	122	48	38	326	282	66	59	9	5	57	53	NM	9	NM	0	11	9	79	60
Arizona	285	251	13.6%	199	176	86	75	35	29	162	145	NM	32	NM	2	31	31	10	7	0	0	10	7	45	38
Colorado	49	44	13.0%	21	17	29	27	0	0	19	16	NM	13	NM	1	13	13	0	0	0	0	0	0	15	14
Idaho	0	0	51.3%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Montana	0	1	-30.3%	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Nevada	132	93	41.9%	117	87	15	7	NM	0	109	84	11	6	3	3	5	3	NM	1	NM	0	1	1	9	2
New Mexico	54	55	-3.1%	43	46	11	9	10	9	33	37	5	5	0	0	5	5	0	0	0	0	0	0	5	4
Utah	NM	3	NM	NM	0	6	3	0	0	NM	0	2	1	0	0	2	1	0	0	0	0	0	0	3	1
Wyoming	0	0	14.9%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pacific Contiguous	1,291	995	29.8%	914	707	377	288	39	35	866	663	107	88	9	9	98	78	NM	49	NM	0	58	48	221	161
California	1,283	988	29.8%	912	705	371	283	38	34	864	662	105	86	9	9	96	77	NM	49	NM	0	58	48	217	158
Oregon	NM	5	NM	NM	2	4	3	NM	1	NM	1	2	2	0	0	2	2	0	0	0	0	0	0	2	2
Washington	2	1	57.7%	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1
Pacific Noncontiguous	51	43	17.5%	7	4	44	39	NM	2	NM	2	16	16	0	0	16	16	0	0	0	0	0	0	28	24
Alaska	0	0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii	51	43	17.5%	7	4	44	39	NM	2	NM	2	16	16	0	0	16	16	0	0	0	0	0	0	28	24
U.S. Total	2,521	1,904	32.4%	1,685	1,232	836	673	113	85	1,529	1,118	366	314	40	28	326	287	NM	68	NM	1	81	67	429	319

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report;
Estimated distributed solar photovoltaic generation and distributed solar photovoltaic capacity are based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.17.B. Net Generation from Solar Photovoltaic
by State, by Sector, Year-to-Date through November 2015 and 2014 (Thousand Megawatthours)

	All Sectors							Electric Power Sector				Commercial Sector						Industrial Sector						Residential Sector	
	Estimated Net Generation From Utility Scale Facilities and Distributed Solar Photovoltaic Generation			Generation at Utility Scale Facilities		Estimated Distributed Solar Photovoltaic Generation		Electric Utilities: Generation at Utility Scale Facilities		Independent Power Producers: Generation at Utility Scale Facilities		Estimated Net Generation From Utility Scale Facilities and Distributed		Generation at Utility Scale Facilities		Estimated Distributed Solar Photovoltaic Generation		Estimated Net Generation From Utility Scale Facilities and Distributed		Generation at Utility Scale Facilities		Estimated Distributed Solar Photovoltaic Generation		Estimated Distributed Solar Photovoltaic Generation	
Census Division and State	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	1,619	954	69.7%	731	327	888	627	19	11	707	312	572	424	5	5	567	419	37	32	0	0	37	32	285	176
Connecticut	175	108	62.4%	21	11	154	97	0	0	21	11	72	52	0	0	72	52	8	5	0	0	8	5	75	39
Maine	15	11	41.4%	0	0	15	11	0	0	0	0	5	3	0	0	5	3	0	0	0	0	0	0	10	8
Massachusetts	1,271	752	69.0%	635	285	637	467	19	11	611	270	462	348	5	5	457	343	28	26	0	0	28	26	151	98
New Hampshire	19	12	65.4%	0	0	19	12	0	0	0	0	6	4	0	0	6	4	1	1	0	0	1	1	13	7
Rhode Island	25	20	28.3%	13	9	12	11	0	0	13	9	10	9	0	0	10	9	0	0	0	0	0	0	2	1
Vermont	113	52	115.9%	62	22	51	31	0	0	62	22	17	7	0	0	17	7	0	0	0	0	0	0	34	23
Middle Atlantic	2,685	2,128	26.2%	952	619	1,733	1,509	91	39	680	465	1,228	1,099	170	106	1,059	993	128	110	12	9	116	102	558	414
New Jersey	1,856	1,532	21.2%	774	492	1,082	1,039	91	39	521	349	933	868	161	103	772	766	63	56	NM	1	62	55	248	219
New York	543	338	60.4%	98	67	445	271	0	0	95	67	204	142	NM	0	201	142	8	4	0	0	8	4	236	124
Pennsylvania	286	258	11.0%	81	60	206	198	0	0	64	48	91	89	6	4	85	85	57	50	10	8	46	43	74	70
East North Central	511	347	47.1%	332	196	178	152	25	10	300	183	132	117	4	3	128	114	11	7	NM	0	7	7	43	31
Illinois	83	65	26.7%	60	47	23	18	NM	0	59	47	16	14	0	0	16	14	0	0	0	0	0	0	7	4
Indiana	211	105	100.9%	199	96	12	9	13	1	187	95	7	6	0	0	7	6	0	0	0	0	0	0	5	3
Michigan	36	33	9.5%	NM	0	36	33	NM	0	0	0	26	25	0	0	26	25	1	1	0	0	1	1	10	8
Ohio	153	120	27.1%	72	51	81	69	11	9	53	40	67	57	4	3	63	54	10	6	NM	0	6	6	12	9
Wisconsin	28	23	18.5%	NM	1	26	22	0	0	NM	1	16	15	0	0	16	15	0	0	0	0	0	0	10	7
West North Central	228	158	44.2%	27	11	201	147	0	0	26	11	119	85	NM	0	118	85	3	2	0	0	3	2	79	61
Iowa	34	20	68.2%	0	0	34	20	0	0	0	0	22	13	0	0	22	13	1	0	0	0	1	0	11	6
Kansas	6	3	132.0%	NM	0	4	3	0	0	NM	0	2	1	0	0	2	1	0	0	0	0	0	0	2	1
Minnesota	27	20	35.3%	3	3	24	18	0	0	3	3	13	10	0	0	13	10	2	1	0	0	2	1	10	7
Missouri	158	113	39.6%	22	8	137	105	0	0	21	8	81	60	NM	0	81	60	1	0	0	0	1	0	55	45
Nebraska	1	1	39.1%	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
North Dakota	0	0	-4.7%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Dakota	1	0	29.3%	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South Atlantic	2,799	1,583	76.8%	2,129	1,043	670	540	105	81	1,928	881	530	463	96	81	434	381	18	10	0	0	18	10	218	149
Delaware	119	102	15.8%	58	47	60	56	7	6	49	39	44	42	NM	2	42	41	3	3	0	0	3	3	15	12
District of Columbia	25	24	5.5%	0	0	25	24	0	0	0	0	18	17	0	0	18	17	0	0	0	0	0	0	7	6
Florida	279	203	37.4%	137	110	142	93	64	61	71	47	78	50	NM	2	76	48	3	0	0	0	3	0	63	44
Georgia	216	191	13.0%	135	112	81	79	13	0	119	109	78	77	4	3	75	74	1	1	0	0	1	1	5	4
Maryland	372	290	28.5%	131	95	242	195	10	8	116	83	147	135	5	3	142	132	9	5	0	0	9	5	91	58
North Carolina	1,746	742	135.3%	1,662	675	84	67	11	6	1,568	597	150	130	83	72	67	58	1	0	0	0	1	0	16	9
South Carolina	11	8	41.1%	5	4	6	3	0	0	5	4	1	1	0	0	1	1	0	0	0	0	0	0	5	3
Virginia	27	20	33.8%	0	0	27	20	0	0	0	0	12	10	0	0	12	10	0	0	0	0	0	0	15	10
West Virginia	4	3	22.4%	0	0	4	3	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	3	2
East South Central	174	97	79.6%	100	24	75	74	0	0	96	21	75	74	4	3	71	71	0	0	0	0	0	0	3	2
Alabama	3	3	3.6%	0	0	3	3	0	0	0	0	2	2	0	0	2	2	0	0	0	0	0	0	0	0
Kentucky	13	12	9.6%	0	0	13	12	0	0	0	0	11	11	0	0	11	11	0	0	0	0	0	0	2	1
Mississippi	2	2	0.6%	0	0	2	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	1	1
Tennessee	156	80	94.8%	100	24	57	57	0	0	96	21	60	59	4	3	57	57	0	0	0	0	0	0	0	0
West South Central	711	495	43.5%	386	266	325	230	1	0	383	263	90	65	3	2	88	63	0	0	0	0	0	0	237	167
Arkansas	5	5	11.0%	0	0	5	5	0	0	0	0	2	2	0	0	2	2	0	0	0	0	0	0	3	2
Louisiana	138	93	48.7%	0	0	138	93	0	0	0	0	5	4	0	0	5	4	0	0	0	0	0	0	133	89
Oklahoma	4	2	70.8%	1	0	3	2	1	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	2	1
Texas	564	396	42.6%	386	266	179	130	0	0	383	263	82	58	3	2	79	56	0	0	0	0	0	0	99	74
Mountain	6,798	5,376	26.4%	5,006	3,968	1,792	1,407	637	474	4,254	3,428	839	724	112	64	727	660	135	82	2	2	132	80	933	668
Arizona	3,682	3,251	13.3%	2,621	2,410	1,061	840	493	379	2,106	2,009	414	394	23	23	391	371	112	62	0	0	112	62	559	408
Colorado	647	570	13.6%	267	242	380	328	0	0	251	230	195	175	17	12	178	163	2	2	0	0	2	2	199	164
Idaho	6	4	43.2%	0	0	6	4	0	0	0	0	2	2	0	0	2	2	0	0	0	0	0	0	3	2
Montana	8	11	-28.0%	0	0	8	11	0	0	0	0	2	2	0	0	2	2	0	0	0	0	0	0	5	9
Nevada	1,629	916	77.8%	1,483	837	146	79	NM	0	1,406	805	134	73	73	29	61	44	15	14	2	2	13	12	72	24
New Mexico	738	585	26.2%	610	477	127	107	142	96	468	382	67	61	0	0	67	61	1	1	0	0	1	1	60	45
Utah	85	37	130.3%	23	2	61	35	0	0	23	2	24	17	0	0	24	17	5	3	0	0	5	3	33	15
Wyoming	3	2	14.4%	0	0	3	2	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	1	1
Pacific Contiguous	16,894	11,532	46.5%	11,948	7,824	4,946	3,709	534	406	11,282	7,327	1,431	1,168	126	87	1,305	1,081	806	655	6	4	800	650	2,840	1,977
California	16,719	11,400	46.7%	11,916	7,800	4,803	3,600	526	399	11,259	7,310	1,378	1,121	126	87	1,252	1,034	802	652	6	4	797	648	2,754	1,918
Oregon	124	99	25.0%	31	23	93	77	7	6	24	17	44	40	0	0	44	40	4	2	0	0	4	2	46	35
Washington	50	32	54.1%	1	1	49	32	1	1	0	0	9	7	0	0	9	7	0	0	0	0	0	0	40	24
Pacific Noncontiguous	636	527	20.7%	75	36	561	491	37	9	38	27	217	204	0	0	217	204	0	0	0	0	0	0	344	287
Alaska	0	0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawaii	636	527	20.7%	75	36	561	491	37	9	38	27	217	204	0	0	217	204	0	0	0	0	0	0	344	287
U.S. Total	33,054	23,198	42.5%	21,685	14,313	11,369	8,885	1,447	1,030	19,695	12,917	5,234	4,422	519	350	4,714	4,071	1,138	897	23	16	1,114	882	5,540	3,932

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report;
Estimated distributed solar photovoltaic generation and distributed solar photovoltaic capacity are based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

Table 1.18.A. Utility Scale Facility Net Generation from Solar Thermal by State, by Sector, November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	0	0	-100.0%	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	-100.0%	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	0	0	--	0	0	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	0	0	--	0	0	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	4	6	-36.2%	4	6	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	4	6	-36.2%	4	6	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	0	0	--	0	0	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	54	38	40.1%	0	0	54	38	0	0	0	0
Arizona	46	34	37.1%	0	0	46	34	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	7	5	61.7%	0	0	7	5	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	147	103	41.9%	0	0	147	103	0	0	0	0
California	147	103	41.9%	0	0	147	103	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	204	148	38.2%	4	6	201	142	0	0	0	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 1.18.B. Utility Scale Facility Net Generation from Solar Thermal

by State, by Sector, Year-to-Date through November 2015 and 2014 (Thousand Megawatthours)

	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	Generation at Utility Scale Facilities			Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities		Generation at Utility Scale Facilities	
Census Division and State	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	0	2	-100.0%	0	0	0	2	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	2	-100.0%	0	0	0	2	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	0	--	0	0	0	0	0	0	0	0
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	0	--	0	0	0	0	0	0	0	0
East North Central	0	0	--	0	0	0	0	0	0	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	0	0	--	0	0	0	0	0	0	0	0
Michigan	0	0	--	0	0	0	0	0	0	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	0	0	--	0	0	0	0	0	0	0	0
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	104	116	-10.1%	104	116	0	0	0	0	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	104	116	-10.1%	104	116	0	0	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	0	0	--	0	0	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	794	701	13.3%	0	0	794	701	0	0	0	0
Arizona	689	586	17.6%	0	0	689	586	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	105	115	-8.5%	0	0	105	115	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	2,219	1,528	45.2%	0	0	2,219	1,528	0	0	0	0
California	2,219	1,528	45.2%	0	0	2,219	1,528	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	3,117	2,346	32.9%	104	116	3,013	2,230	0	0	0	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Negative generation denotes that electric power consumed for plant use exceeds gross generation.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.1.A. Coal: Consumption for Electricity Generation, by Sector, 2005-November 2015 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2005	1,041,448	761,349	272,218	377	7,504
2006	1,030,556	753,390	269,412	347	7,408
2007	1,046,795	764,765	276,581	361	5,089
2008	1,042,335	760,326	276,565	369	5,075
2009	934,683	695,615	234,077	317	4,674
2010	979,684	721,431	249,814	314	8,125
2011	934,938	689,316	239,541	347	5,735
2012	825,734	615,467	205,295	307	4,665
2013	860,729	638,327	217,219	513	4,670
2014	853,634	624,235	224,568	202	4,629
Year 2013					
January	75,049	55,688	18,919	55	386
February	67,129	49,022	17,700	50	358
March	70,469	52,038	17,979	49	404
April	60,807	45,540	14,852	40	374
May	64,688	48,328	15,922	40	399
June	75,054	56,015	18,605	38	395
July	83,213	61,387	21,360	38	429
August	81,970	61,396	20,127	38	408
Sept	72,723	53,126	19,179	38	380
October	66,348	49,423	16,521	37	367
November	65,959	49,621	15,930	42	366
December	77,319	56,743	20,125	47	404
Year 2014					
January	83,647	61,084	22,129	27	407
February	76,160	55,073	20,699	27	362
March	72,124	51,559	20,147	22	396
April	58,065	41,151	16,541	16	357
May	64,033	47,114	16,521	12	385
June	74,328	55,542	18,365	15	406
July	81,495	60,238	20,821	16	420
August	81,074	60,222	20,422	14	417
Sept	69,127	50,728	17,998	12	389
October	61,129	44,987	15,772	11	359
November	64,651	46,561	17,720	14	356
December	67,799	49,976	17,434	16	373
Year 2015					
January	71,378	51,575	19,435	17	351
February	67,116	48,634	18,119	19	344
March	58,375	43,059	14,935	17	363
April	48,567	36,838	11,440	11	278
May	57,238	43,543	13,361	12	321
June	69,226	51,364	17,476	14	373
July	76,916	57,085	19,420	15	396
August	74,132	54,831	18,883	12	406
Sept	65,088	47,634	17,071	11	372
October	53,994	39,774	13,866	11	344
November	49,200	36,139	12,742	11	306
Year to Date					
2013	783,409	581,583	197,094	466	4,266
2014	785,834	574,259	207,134	185	4,255
2015	691,230	510,477	176,747	151	3,854
Rolling 12 Months Ending in November					
2014	863,154	631,003	227,259	233	4,659
2015	759,029	560,452	194,181	167	4,228

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.1.B. Coal: Consumption for Useful Thermal Output, by Sector, 2005-November 2015 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2005	23,833	0	3,918	1,544	18,371
2006	23,227	0	3,834	1,539	17,854
2007	22,810	0	3,795	1,566	17,449
2008	22,168	0	3,689	1,652	16,827
2009	20,507	0	3,935	1,481	15,091
2010	21,727	0	3,808	1,406	16,513
2011	21,532	0	3,628	1,321	16,584
2012	19,333	0	2,790	1,143	15,400
2013	18,350	0	2,416	843	15,090
2014	18,107	978	1,821	861	14,448
Year 2013					
January	1,699	0	225	94	1,381
February	1,527	0	198	88	1,242
March	1,631	0	203	83	1,345
April	1,442	0	192	59	1,191
May	1,479	0	194	66	1,219
June	1,428	0	197	63	1,168
July	1,527	0	219	63	1,245
August	1,496	0	215	63	1,218
Sept	1,404	0	196	58	1,150
October	1,470	0	164	53	1,253
November	1,599	0	212	70	1,318
December	1,647	0	203	83	1,362
Year 2014					
January	1,773	114	171	105	1,384
February	1,641	97	167	105	1,271
March	1,722	95	199	96	1,332
April	1,425	81	162	66	1,115
May	1,450	81	146	59	1,164
June	1,413	63	153	63	1,134
July	1,466	78	150	70	1,169
August	1,451	70	149	58	1,175
Sept	1,355	70	121	52	1,113
October	1,359	66	122	47	1,123
November	1,480	76	138	68	1,198
December	1,573	86	142	74	1,271
Year 2015					
January	1,632	91	142	79	1,321
February	1,422	85	121	72	1,143
March	1,510	88	132	71	1,220
April	1,349	68	116	53	1,112
May	1,388	76	143	50	1,120
June	1,343	87	145	50	1,061
July	1,460	83	159	53	1,165
August	1,420	72	144	51	1,154
Sept	1,369	73	144	46	1,105
October	1,263	77	107	50	1,028
November	1,723	344	118	59	1,202
Year to Date					
2013	16,703	0	2,214	761	13,729
2014	16,534	891	1,679	787	13,177
2015	15,880	1,144	1,472	633	12,631
Rolling 12 Months Ending in November					
2014	18,181	891	1,881	870	14,539
2015	17,453	1,231	1,614	707	13,902

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.1.C. Coal: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2005-November 2015 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2005	1,065,281	761,349	276,135	1,922	25,875
2006	1,053,783	753,390	273,246	1,886	25,262
2007	1,069,606	764,765	280,377	1,927	22,537
2008	1,064,503	760,326	280,254	2,021	21,902
2009	955,190	695,615	238,012	1,798	19,766
2010	1,001,411	721,431	253,621	1,720	24,638
2011	956,470	689,316	243,168	1,668	22,319
2012	845,066	615,467	208,085	1,450	20,065
2013	879,078	638,327	219,635	1,356	19,761
2014	871,741	625,212	226,389	1,063	19,076
Year 2013					
January	76,748	55,688	19,144	149	1,767
February	68,656	49,022	17,897	137	1,600
March	72,100	52,038	18,182	132	1,748
April	62,249	45,540	15,044	100	1,565
May	66,168	48,328	16,116	105	1,618
June	76,482	56,015	18,802	102	1,563
July	84,740	61,387	21,580	100	1,674
August	83,466	61,396	20,342	102	1,626
Sept	74,127	53,126	19,375	96	1,530
October	67,818	49,423	16,685	91	1,620
November	67,559	49,621	16,142	112	1,683
December	78,966	56,743	20,327	130	1,765
Year 2014					
January	85,420	61,198	22,300	132	1,791
February	77,801	55,170	20,866	131	1,633
March	73,846	51,654	20,346	118	1,729
April	59,489	41,232	16,703	82	1,472
May	65,483	47,195	16,667	72	1,549
June	75,741	55,606	18,518	78	1,540
July	82,961	60,316	20,970	85	1,589
August	82,526	60,292	20,571	72	1,591
Sept	70,482	50,798	18,118	64	1,502
October	62,488	45,053	15,895	58	1,482
November	66,131	46,637	17,858	82	1,554
December	69,372	50,062	17,576	90	1,644
Year 2015					
January	73,010	51,666	19,577	96	1,672
February	68,538	48,719	18,240	91	1,488
March	59,885	43,147	15,067	88	1,583
April	49,916	36,906	11,556	64	1,391
May	58,627	43,619	13,504	62	1,441
June	70,569	51,451	17,621	64	1,433
July	78,376	57,168	19,579	68	1,561
August	75,553	54,903	19,027	63	1,560
Sept	66,457	47,707	17,215	58	1,477
October	55,257	39,851	13,973	61	1,372
November	50,923	36,484	12,860	70	1,509
Year to Date					
2013	800,112	581,583	199,308	1,226	17,995
2014	802,369	575,150	208,813	973	17,432
2015	707,110	511,621	178,219	784	16,485
Rolling 12 Months Ending in November					
2014	881,335	631,894	229,141	1,103	19,198
2015	776,482	561,683	195,795	874	18,129

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.2.A. Petroleum Liquids: Consumption for Electricity Generation, by Sector, 2005-November 2015 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2005	165,137	98,223	62,154	580	4,180
2006	73,821	53,529	17,179	327	2,786
2007	82,433	56,910	22,793	250	2,480
2008	53,846	38,995	13,152	160	1,538
2009	43,562	31,847	9,880	184	1,652
2010	40,103	30,806	8,278	164	855
2011	27,326	20,844	5,633	133	716
2012	22,604	17,521	4,110	272	702
2013	23,231	16,827	5,494	328	582
2014	31,531	19,652	10,689	451	739
Year 2013					
January	2,962	1,809	1,036	47	69
February	1,890	1,279	526	35	51
March	1,639	1,334	232	24	50
April	1,685	1,335	282	24	43
May	1,789	1,419	294	20	55
June	1,699	1,321	319	18	41
July	2,546	1,732	740	31	43
August	1,776	1,402	306	26	41
Sept	1,591	1,170	361	19	40
October	1,581	1,247	270	21	44
November	1,657	1,305	282	24	46
December	2,416	1,473	848	38	57
Year 2014					
January	10,190	4,468	5,487	112	122
February	3,117	1,879	1,099	58	81
March	3,476	1,917	1,443	43	72
April	1,556	1,283	200	31	42
May	1,647	1,296	274	22	56
June	1,502	1,179	246	27	50
July	1,696	1,308	311	24	53
August	1,751	1,310	372	23	45
Sept	1,645	1,296	274	24	50
October	1,550	1,218	251	28	53
November	1,681	1,230	362	28	60
December	1,721	1,268	368	30	54
Year 2015					
January	3,357	2,099	1,117	55	85
February	8,696	3,655	4,759	163	119
March	1,830	1,265	469	25	71
April	1,552	1,251	227	17	57
May	1,742	1,277	374	20	70
June	1,771	1,410	284	20	57
July	2,043	1,543	422	24	53
August	1,861	1,455	336	22	49
Sept	1,718	1,268	389	16	45
October	1,556	1,237	266	9	44
November	1,763	1,393	305	8	57
Year to Date					
2013	20,815	15,354	4,646	290	525
2014	29,810	18,385	10,321	421	684
2015	27,888	17,853	8,948	380	708
Rolling 12 Months Ending in November					
2014	32,226	19,858	11,169	458	741
2015	29,609	19,120	9,317	410	762

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.2.B. Petroleum Liquids: Consumption for Useful Thermal Output, by Sector, 2005-November 2015 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2005	20,494	0	1,392	1,004	18,097
2006	14,077	0	1,153	559	12,365
2007	13,462	0	1,303	441	11,718
2008	7,533	0	1,311	461	5,762
2009	8,128	0	1,301	293	6,534
2010	4,866	0	1,086	212	3,567
2011	3,826	0	1,004	168	2,654
2012	3,097	0	992	122	1,984
2013	3,456	0	1,050	498	1,908
2014	3,099	64	1,170	216	1,650
Year 2013					
January	473	0	63	214	196
February	311	0	79	55	178
March	235	0	89	3	143
April	245	0	89	3	153
May	248	0	92	7	149
June	230	0	86	6	139
July	220	0	90	13	117
August	209	0	90	5	114
Sept	203	0	94	3	106
October	229	0	99	10	120
November	234	0	88	12	134
December	619	0	92	167	360
Year 2014					
January	643	45	189	115	294
February	336	5	88	44	199
March	301	7	101	27	165
April	203	0	86	4	114
May	211	1	89	5	116
June	208	1	90	3	114
July	195	1	93	4	97
August	201	1	108	3	89
Sept	173	1	62	2	109
October	208	0	92	2	114
November	220	0	90	4	125
December	200	1	80	4	114
Year 2015					
January	328	9	108	26	185
February	548	46	203	61	238
March	242	1	90	12	139
April	206	0	83	7	116
May	215	0	86	10	118
June	215	1	83	10	121
July	219	0	98	12	109
August	201	1	93	10	97
Sept	240	1	94	9	136
October	219	2	102	8	108
November	226	1	88	9	128
Year to Date					
2013	2,837	0	958	331	1,548
2014	2,899	63	1,089	212	1,536
2015	2,859	62	1,128	174	1,495
Rolling 12 Months Ending in November					
2014	3,518	63	1,181	379	1,896
2015	3,059	64	1,208	178	1,609

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.2.C. Petroleum Liquids: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2005-November 2015 (Thousand Barrels)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2005	185,631	98,223	63,546	1,584	22,278
2006	87,898	53,529	18,332	886	15,150
2007	95,895	56,910	24,097	691	14,198
2008	61,379	38,995	14,463	621	7,300
2009	51,690	31,847	11,181	477	8,185
2010	44,968	30,806	9,364	376	4,422
2011	31,152	20,844	6,637	301	3,370
2012	25,702	17,521	5,102	394	2,685
2013	26,687	16,827	6,544	826	2,490
2014	34,630	19,716	11,859	667	2,389
Year 2013					
January	3,435	1,809	1,099	261	265
February	2,202	1,279	604	90	229
March	1,874	1,334	321	27	193
April	1,930	1,335	371	27	196
May	2,037	1,419	386	27	204
June	1,929	1,321	405	24	179
July	2,766	1,732	829	44	160
August	1,985	1,402	396	32	155
Sept	1,794	1,170	455	22	146
October	1,810	1,247	369	31	164
November	1,891	1,305	369	36	181
December	3,035	1,473	940	205	417
Year 2014					
January	10,833	4,513	5,677	227	416
February	3,453	1,885	1,187	101	280
March	3,776	1,924	1,545	70	237
April	1,760	1,283	286	35	156
May	1,858	1,296	363	27	172
June	1,711	1,180	336	30	164
July	1,890	1,309	404	28	150
August	1,952	1,311	481	26	134
Sept	1,818	1,297	336	26	159
October	1,758	1,219	343	30	166
November	1,900	1,230	453	32	186
December	1,921	1,269	449	34	169
Year 2015					
January	3,685	2,108	1,226	81	270
February	9,244	3,702	4,962	224	357
March	2,072	1,266	559	37	211
April	1,758	1,252	310	24	172
May	1,957	1,278	460	30	189
June	1,986	1,410	367	30	178
July	2,262	1,543	520	36	163
August	2,062	1,456	428	32	146
Sept	1,958	1,268	484	25	181
October	1,775	1,238	368	17	151
November	1,989	1,394	394	17	184
Year to Date					
2013	23,652	15,354	5,604	621	2,073
2014	32,709	18,447	11,410	632	2,220
2015	30,747	17,915	10,076	553	2,203
Rolling 12 Months Ending in November					
2014	35,744	19,921	12,350	837	2,637
2015	32,668	19,184	10,525	588	2,372

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.3.A. Petroleum Coke: Consumption for Electricity Generation, by Sector, 2005-November 2015 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2005	8,330	4,130	3,746	1	452
2006	7,363	3,619	3,286	1	456
2007	6,036	2,808	2,715	2	512
2008	5,417	2,296	2,704	1	416
2009	4,821	2,761	1,724	1	335
2010	4,994	3,325	1,354	2	313
2011	5,012	3,449	1,277	1	286
2012	3,675	2,105	756	1	812
2013	4,852	3,409	779	1	662
2014	4,412	3,440	599	2	371
Year 2013					
January	385	253	67	0	65
February	314	220	62	0	32
March	364	236	67	0	60
April	342	217	62	0	63
May	469	361	41	0	68
June	476	348	63	0	66
July	474	337	72	0	65
August	491	332	93	0	66
Sept	442	326	60	0	57
October	404	289	64	0	51
November	308	217	60	0	30
December	381	272	69	0	39
Year 2014					
January	436	349	55	0	32
February	361	275	56	0	30
March	421	332	57	0	31
April	303	212	55	0	36
May	393	314	49	0	30
June	418	339	46	0	33
July	385	299	54	0	33
August	382	298	51	0	33
Sept	372	281	62	0	29
October	230	178	23	0	29
November	288	228	33	0	27
December	424	335	60	0	29
Year 2015					
January	400	312	57	0	30
February	419	332	57	0	31
March	278	195	60	0	23
April	301	213	59	0	29
May	343	260	59	0	23
June	305	233	55	0	17
July	421	333	59	0	28
August	397	311	59	0	27
Sept	381	294	61	0	26
October	306	227	57	0	22
November	257	178	62	0	NM
Year to Date					
2013	4,471	3,137	710	1	623
2014	3,989	3,105	539	2	342
2015	3,807	2,888	645	2	273
Rolling 12 Months Ending in November					
2014	4,370	3,378	608	2	382
2015	4,231	3,222	705	2	NM

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.3.B. Petroleum Coke: Consumption for Useful Thermal Output, by Sector, 2005-November 2015 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2005	783	0	206	8	568
2006	1,259	0	195	9	1,055
2007	1,262	0	162	11	1,090
2008	897	0	119	9	769
2009	1,007	0	126	8	873
2010	1,059	0	98	11	950
2011	1,080	0	112	6	962
2012	1,346	0	113	11	1,222
2013	1,486	0	96	11	1,379
2014	1,283	3	90	16	1,174
Year 2013					
January	137	0	9	2	127
February	103	0	7	1	94
March	129	0	9	1	119
April	114	0	9	0	105
May	130	0	8	0	123
June	130	0	5	0	125
July	140	0	9	0	132
August	162	0	8	1	152
Sept	115	0	7	1	107
October	118	0	9	1	108
November	92	0	8	1	83
December	115	0	9	1	105
Year 2014					
January	105	0	9	2	95
February	93	1	7	1	84
March	106	0	8	2	96
April	116	0	9	2	105
May	110	0	8	1	102
June	109	0	0	0	109
July	114	0	5	0	109
August	112	0	9	2	101
Sept	113	0	9	2	102
October	86	0	9	1	75
November	104	1	9	2	92
December	114	0	9	2	103
Year 2015					
January	140	0	10	2	128
February	135	1	9	2	124
March	147	1	9	2	136
April	120	1	9	1	108
May	101	1	10	0	90
June	116	2	9	0	106
July	104	1	9	0	94
August	104	0	9	2	94
Sept	107	0	8	2	97
October	90	0	8	2	80
November	121	3	10	2	NM
Year to Date					
2013	1,371	0	87	9	1,275
2014	1,168	3	80	14	1,071
2015	1,286	9	99	15	1,163
Rolling 12 Months Ending in November					
2014	1,284	3	89	16	1,176
2015	1,401	9	109	17	NM

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.3.C. Petroleum Coke: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2005-November 2015 (Thousand Tons)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2005	9,113	4,130	3,953	9	1,020
2006	8,622	3,619	3,482	10	1,511
2007	7,299	2,808	2,877	12	1,602
2008	6,314	2,296	2,823	10	1,184
2009	5,828	2,761	1,850	9	1,209
2010	6,053	3,325	1,452	12	1,264
2011	6,092	3,449	1,388	6	1,248
2012	5,021	2,105	869	13	2,034
2013	6,338	3,409	875	12	2,041
2014	5,695	3,443	689	18	1,545
Year 2013					
January	522	253	76	2	191
February	416	220	69	2	126
March	493	236	76	2	180
April	456	217	71	0	168
May	600	361	48	0	191
June	606	348	68	0	191
July	614	337	80	0	197
August	653	332	101	2	218
Sept	558	326	67	1	164
October	522	289	73	1	158
November	400	217	68	1	114
December	496	272	78	2	144
Year 2014					
January	541	349	63	2	127
February	454	276	63	2	113
March	527	332	65	2	128
April	418	212	64	2	141
May	504	314	57	1	132
June	527	339	46	0	141
July	499	299	58	0	142
August	494	298	59	2	134
Sept	485	281	70	2	131
October	316	178	32	2	104
November	393	229	42	2	120
December	538	335	69	2	132
Year 2015					
January	540	313	67	3	158
February	555	332	65	2	155
March	425	196	69	2	159
April	420	213	68	2	137
May	444	261	69	0	113
June	422	235	64	0	123
July	525	334	68	0	123
August	501	311	68	2	121
Sept	488	294	70	2	122
October	397	227	66	2	102
November	377	181	72	2	NM
Year to Date					
2013	5,842	3,137	797	11	1,897
2014	5,157	3,108	619	16	1,413
2015	5,094	2,896	745	17	1,436
Rolling 12 Months Ending in November					
2014	5,653	3,381	698	18	1,557
2015	5,632	3,232	814	19	NM

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.4.A. Natural Gas: Consumption for Electricity Generation, by Sector, 2005-November 2015 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2005	6,036,370	2,134,859	3,349,921	33,785	517,805
2006	6,461,615	2,478,396	3,412,826	34,623	535,770
2007	7,089,342	2,736,418	3,765,194	34,087	553,643
2008	6,895,843	2,730,134	3,612,197	33,403	520,109
2009	7,121,069	2,911,279	3,655,712	34,279	519,799
2010	7,680,185	3,290,993	3,794,423	39,462	555,307
2011	7,883,865	3,446,087	3,819,107	47,170	571,501
2012	9,484,710	4,101,927	4,686,260	63,116	633,407
2013	8,596,299	3,970,447	3,917,131	66,570	642,152
2014	8,544,387	3,895,008	3,954,032	71,957	623,390
Year 2013					
January	666,650	310,174	296,071	5,247	55,159
February	599,100	278,139	266,731	4,807	49,424
March	637,349	293,545	285,259	5,365	53,180
April	595,667	268,467	272,544	5,095	49,562
May	646,296	295,973	294,795	5,160	50,369
June	771,868	363,204	349,597	5,582	53,485
July	949,141	432,493	451,078	7,169	58,401
August	937,197	442,939	430,139	6,449	57,671
Sept	784,619	365,005	361,481	6,005	52,128
October	669,764	312,216	300,858	4,993	51,697
November	633,885	284,526	291,241	4,881	53,237
December	704,762	323,768	317,338	5,817	57,840
Year 2014					
January	694,661	324,657	309,522	6,411	54,071
February	579,819	265,645	261,103	5,180	47,892
March	591,101	271,638	263,442	5,292	50,729
April	579,336	270,132	256,256	4,967	47,981
May	680,193	323,448	300,470	5,761	50,513
June	754,126	348,327	349,049	6,119	50,630
July	880,805	393,011	425,395	6,966	55,433
August	935,170	426,346	445,556	7,430	55,839
Sept	805,960	355,962	391,332	6,396	52,270
October	736,039	323,456	356,020	5,939	50,625
November	633,279	288,760	287,096	5,496	51,927
December	673,898	303,627	308,792	5,999	55,480
Year 2015					
January	748,274	342,446	344,333	6,036	55,459
February	677,934	326,486	299,130	5,199	47,119
March	736,302	346,138	335,669	6,171	48,324
April	694,920	329,428	314,756	5,257	45,479
May	769,651	358,615	355,274	6,176	49,586
June	926,080	445,940	421,595	6,184	52,361
July	1,085,365	508,684	514,948	6,764	54,968
August	1,063,043	494,828	506,218	6,934	55,063
Sept	934,539	435,427	440,245	6,420	52,448
October	826,750	382,560	388,708	6,082	49,400
November	765,530	361,158	345,917	6,088	52,366
Year to Date					
2013	7,891,537	3,646,679	3,599,794	60,753	584,311
2014	7,870,489	3,591,381	3,645,240	65,957	567,910
2015	9,228,388	4,331,713	4,266,793	67,310	562,573
Rolling 12 Months Ending in November					
2014	8,575,251	3,915,149	3,962,578	71,774	625,750
2015	9,902,286	4,635,339	4,575,585	73,309	618,053

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.4.B. Natural Gas: Consumption for Useful Thermal Output, by Sector, 2005-November 2015 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2005	984,340	0	384,365	34,172	565,803
2006	942,817	0	330,878	33,112	578,828
2007	872,579	0	339,796	35,987	496,796
2008	793,537	0	326,048	32,813	434,676
2009	816,787	0	305,542	41,275	469,970
2010	821,775	0	301,769	46,324	473,683
2011	839,681	0	308,669	39,856	491,155
2012	886,103	0	322,607	47,883	515,613
2013	882,385	0	303,177	51,057	528,151
2014	865,146	4,926	292,016	46,635	521,569
Year 2013					
January	74,638	0	25,440	4,277	44,920
February	67,391	0	23,519	3,883	39,989
March	73,151	0	25,107	4,051	43,993
April	70,245	0	23,817	3,571	42,857
May	70,784	0	24,040	3,703	43,041
June	70,610	0	24,349	4,045	42,216
July	78,649	0	27,553	4,968	46,128
August	78,207	0	27,452	4,811	45,943
Sept	72,884	0	24,996	4,358	43,529
October	72,095	0	23,964	4,137	43,993
November	73,889	0	25,253	4,336	44,300
December	79,843	0	27,687	4,915	47,241
Year 2014					
January	87,362	527	28,175	7,205	51,455
February	68,875	539	23,822	3,527	40,988
March	72,690	476	25,252	3,245	43,717
April	67,023	286	22,224	3,085	41,428
May	67,861	224	22,787	3,272	41,578
June	67,490	274	23,101	3,460	40,656
July	72,370	267	24,630	3,749	43,724
August	74,882	441	25,464	4,031	44,946
Sept	69,772	367	23,285	3,731	42,390
October	71,722	431	23,484	3,776	44,032
November	70,483	534	24,002	3,672	42,274
December	74,615	561	25,790	3,883	44,381
Year 2015					
January	79,982	751	26,698	4,912	47,620
February	73,097	721	24,344	4,545	43,486
March	81,437	586	26,962	4,711	49,178
April	73,509	589	24,045	3,570	45,305
May	74,825	584	24,674	4,260	45,307
June	73,609	637	24,303	4,155	44,514
July	77,618	755	26,623	4,324	45,916
August	80,097	851	26,695	4,461	48,090
Sept	75,138	753	26,028	4,546	43,811
October	75,381	688	24,968	4,244	45,482
November	77,570	777	24,813	4,582	47,397
Year to Date					
2013	802,543	0	275,490	46,142	480,910
2014	790,531	4,365	266,226	42,751	477,188
2015	842,262	7,693	280,152	48,310	506,108
Rolling 12 Months Ending in November					
2014	870,373	4,365	293,913	47,666	524,429
2015	916,877	8,254	305,941	52,194	550,489

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.4.C. Natural Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2005-November 2015 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2005	7,020,709	2,134,859	3,734,286	67,957	1,083,607
2006	7,404,432	2,478,396	3,743,704	67,735	1,114,597
2007	7,961,922	2,736,418	4,104,991	70,074	1,050,439
2008	7,689,380	2,730,134	3,938,245	66,216	954,785
2009	7,937,856	2,911,279	3,961,254	75,555	989,769
2010	8,501,960	3,290,993	4,096,192	85,786	1,028,990
2011	8,723,546	3,446,087	4,127,777	87,026	1,062,657
2012	10,370,812	4,101,927	5,008,867	110,999	1,149,020
2013	9,478,685	3,970,447	4,220,309	117,626	1,170,303
2014	9,409,532	3,899,934	4,246,048	118,591	1,144,959
Year 2013					
January	741,288	310,174	321,512	9,524	100,079
February	666,492	278,139	290,249	8,690	89,413
March	710,500	293,545	310,365	9,417	97,174
April	665,912	268,467	296,361	8,666	92,419
May	717,080	295,973	318,835	8,863	93,410
June	842,478	363,204	373,946	9,627	95,701
July	1,027,790	432,493	478,631	12,137	104,529
August	1,015,404	442,939	457,592	11,260	103,614
Sept	857,503	365,005	386,477	10,363	95,657
October	741,859	312,216	324,822	9,130	95,691
November	707,774	284,526	316,494	9,218	97,537
December	784,605	323,768	345,024	10,732	105,081
Year 2014					
January	782,023	325,184	337,697	13,616	105,526
February	648,695	266,184	284,925	8,706	88,880
March	663,791	272,114	288,694	8,537	94,446
April	646,360	270,418	278,481	8,052	89,409
May	748,053	323,672	323,257	9,033	92,091
June	821,616	348,601	372,150	9,580	91,286
July	953,174	393,278	450,025	10,715	99,157
August	1,010,052	426,786	471,019	11,461	100,785
Sept	875,732	356,329	414,618	10,126	94,659
October	807,761	323,887	379,503	9,715	94,657
November	703,762	289,294	311,098	9,169	94,202
December	748,513	304,188	334,581	9,883	99,861
Year 2015					
January	828,256	343,198	371,031	10,948	103,079
February	751,031	327,207	323,474	9,744	90,605
March	817,739	346,724	362,631	10,882	97,502
April	768,429	330,017	338,801	8,827	90,784
May	844,476	359,199	379,948	10,436	94,893
June	999,689	446,577	445,898	10,338	96,875
July	1,162,983	509,440	541,571	11,088	100,885
August	1,143,139	495,679	532,913	11,395	103,153
Sept	1,009,677	436,181	466,272	10,965	96,259
October	902,131	383,248	413,676	10,325	94,882
November	843,100	361,936	370,730	10,671	99,764
Year to Date					
2013	8,694,080	3,646,679	3,875,284	106,894	1,065,222
2014	8,661,019	3,595,746	3,911,467	108,709	1,045,098
2015	10,070,650	4,339,405	4,546,945	115,620	1,068,680
Rolling 12 Months Ending in November					
2014	9,445,624	3,919,514	4,256,491	119,441	1,150,179
2015	10,819,163	4,643,593	4,881,526	125,503	1,168,541

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.5.A. Landfill Gas: Consumption for Electricity Generation, by Sector, 2005-November 2015 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2005	141,899	11,490	123,064	4,797	2,548
2006	160,033	16,617	136,108	6,644	664
2007	166,774	17,442	144,104	4,598	630
2008	195,777	20,465	169,547	5,235	530
2009	206,792	19,583	180,689	5,931	589
2010	218,331	19,975	192,428	5,535	393
2011	232,795	22,086	180,856	29,469	384
2012	256,376	25,193	201,965	26,672	2,545
2013	271,967	27,259	211,942	28,143	4,623
2014	285,982	25,819	228,447	27,038	4,678
Year 2013					
January	22,446	2,169	17,413	2,494	371
February	20,061	1,962	15,670	2,098	331
March	23,296	2,302	18,243	2,384	366
April	21,467	2,261	16,911	1,942	353
May	23,275	2,317	18,229	2,343	387
June	22,614	2,168	17,652	2,407	387
July	23,199	2,109	18,232	2,469	389
August	24,445	2,964	18,590	2,515	377
Sept	22,680	2,272	17,654	2,366	388
October	22,199	2,286	17,082	2,432	400
November	22,709	2,210	17,825	2,252	422
December	23,576	2,241	18,441	2,441	453
Year 2014					
January	24,810	2,187	19,717	2,506	401
February	23,764	1,997	19,121	2,289	357
March	24,623	2,107	19,714	2,388	414
April	24,489	2,133	19,679	2,260	416
May	24,111	2,136	19,380	2,190	404
June	24,096	2,173	19,233	2,294	396
July	26,390	2,372	21,117	2,498	404
August	25,163	2,332	20,037	2,403	391
Sept	23,690	2,143	18,898	2,290	359
October	21,697	2,148	17,099	2,092	358
November	20,698	2,030	16,561	1,723	385
December	22,451	2,062	17,892	2,105	393
Year 2015					
January	28,965	2,744	22,794	2,902	525
February	25,117	2,370	19,786	2,499	462
March	27,073	2,541	21,363	2,676	494
April	26,161	2,554	21,447	1,814	346
May	27,377	2,539	22,516	1,933	389
June	26,469	2,636	21,591	1,876	366
July	28,401	2,794	23,182	2,018	407
August	28,019	2,722	22,946	1,962	389
Sept	24,872	2,382	20,314	1,817	359
October	26,970	2,493	21,626	2,368	483
November	27,119	2,488	21,439	2,683	509
Year to Date					
2013	248,391	25,017	193,502	25,702	4,170
2014	263,531	23,757	210,555	24,934	4,285
2015	296,543	28,260	239,005	24,548	4,730
Rolling 12 Months Ending in November					
2014	287,107	25,998	228,995	27,375	4,738
2015	318,994	30,322	256,897	26,652	5,123

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.5.B. Landfill Gas: Consumption for Useful Thermal Output, by Sector, 2005-November 2015 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2005	1,923	0	965	435	522
2006	2,051	0	525	1,094	433
2007	1,988	0	386	1,102	501
2008	1,025	0	454	433	138
2009	793	0	545	176	72
2010	1,623	0	1,195	370	58
2011	3,195	0	2,753	351	91
2012	3,189	0	2,788	340	61
2013	831	0	261	423	147
2014	1,710	176	525	674	335
Year 2013					
January	64	0	18	33	12
February	64	0	22	30	11
March	60	0	23	24	13
April	76	0	28	37	11
May	86	0	35	40	11
June	79	0	30	37	12
July	87	0	35	39	13
August	77	0	27	37	13
Sept	65	0	17	35	12
October	62	0	15	35	12
November	54	0	4	38	12
December	59	0	8	38	13
Year 2014					
January	169	20	62	61	25
February	148	18	64	44	23
March	132	19	41	44	27
April	137	19	28	60	30
May	144	19	33	64	29
June	154	17	54	54	29
July	179	14	70	64	30
August	161	15	62	55	30
Sept	140	14	47	51	28
October	101	2	21	53	25
November	112	3	17	64	29
December	132	15	26	61	30
Year 2015					
January	562	17	251	182	112
February	526	15	232	178	101
March	386	17	169	128	72
April	69	17	38	14	0
May	74	18	41	15	0
June	69	18	35	16	0
July	93	19	49	23	2
August	82	18	40	22	2
Sept	66	16	35	15	0
October	266	17	130	68	51
November	476	17	204	163	92
Year to Date					
2013	772	0	253	385	133
2014	1,577	161	499	613	305
2015	2,669	189	1,224	824	432
Rolling 12 Months Ending in November					
2014	1,637	161	507	651	318
2015	2,802	204	1,250	885	462

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.5.C. Landfill Gas: Consumption for Electricity Generation and Useful Thermal Output, by Sector, 2005-November 2015 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2005	143,822	11,490	124,030	5,232	3,070
2006	162,084	16,617	136,632	7,738	1,096
2007	168,762	17,442	144,490	5,699	1,131
2008	196,802	20,465	170,001	5,668	668
2009	207,585	19,583	181,234	6,106	661
2010	219,954	19,975	193,623	5,905	451
2011	235,990	22,086	183,609	29,820	474
2012	259,564	25,193	204,753	27,012	2,606
2013	272,798	27,259	212,203	28,566	4,770
2014	287,692	25,995	228,971	27,713	5,013
Year 2013					
January	22,510	2,169	17,431	2,527	383
February	20,125	1,962	15,692	2,128	342
March	23,355	2,302	18,267	2,408	378
April	21,542	2,261	16,939	1,979	364
May	23,361	2,317	18,263	2,383	398
June	22,693	2,168	17,682	2,443	400
July	23,286	2,109	18,267	2,508	402
August	24,522	2,964	18,617	2,552	390
Sept	22,744	2,272	17,671	2,402	400
October	22,261	2,286	17,096	2,467	413
November	22,764	2,210	17,829	2,290	434
December	23,635	2,241	18,448	2,479	466
Year 2014					
January	24,980	2,207	19,779	2,567	426
February	23,912	2,014	19,185	2,334	379
March	24,755	2,126	19,755	2,432	442
April	24,625	2,152	19,708	2,320	446
May	24,255	2,155	19,413	2,254	433
June	24,250	2,190	19,287	2,348	425
July	26,569	2,386	21,187	2,561	434
August	25,324	2,347	20,099	2,458	421
Sept	23,830	2,158	18,944	2,341	387
October	21,798	2,150	17,119	2,145	383
November	20,811	2,033	16,578	1,786	414
December	22,584	2,077	17,918	2,166	423
Year 2015					
January	29,527	2,761	23,045	3,084	637
February	25,644	2,385	20,018	2,677	563
March	27,459	2,558	21,532	2,803	566
April	26,230	2,571	21,485	1,828	346
May	27,451	2,556	22,557	1,948	389
June	26,538	2,653	21,627	1,892	366
July	28,495	2,813	23,232	2,041	409
August	28,101	2,739	22,986	1,984	391
Sept	24,938	2,398	20,349	1,832	359
October	27,236	2,510	21,756	2,436	534
November	27,595	2,505	21,643	2,846	601
Year to Date					
2013	249,163	25,017	193,755	26,087	4,304
2014	265,108	23,918	211,054	25,547	4,590
2015	299,213	28,449	240,229	25,372	5,162
Rolling 12 Months Ending in November					
2014	288,743	26,159	229,502	28,026	5,056
2015	321,796	30,526	258,147	27,538	5,585

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.6.A. Biogenic Municipal Solid Waste: Consumption for Electricity Generation, by Sector, 2005-November 2015 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2005	19,370	560	17,033	1,753	25
2006	19,629	500	17,343	1,761	25
2007	19,576	553	17,116	1,785	122
2008	19,805	509	17,487	1,809	0
2009	19,669	465	17,048	2,155	0
2010	19,437	402	16,802	2,233	0
2011	16,972	388	14,625	1,955	4
2012	16,968	418	14,235	2,304	12
2013	17,007	456	14,057	2,485	8
2014	16,706	444	13,809	2,447	6
Year 2013					
January	1,328	32	1,115	181	0
February	1,199	30	1,000	169	0
March	1,411	31	1,175	205	1
April	1,371	43	1,121	206	1
May	1,480	43	1,218	218	1
June	1,503	40	1,242	220	1
July	1,549	44	1,278	226	1
August	1,478	40	1,213	224	1
Sept	1,408	38	1,154	216	1
October	1,403	41	1,155	206	0
November	1,350	40	1,107	203	0
December	1,528	35	1,280	213	1
Year 2014					
January	1,381	28	1,131	221	0
February	1,205	24	1,014	166	0
March	1,390	38	1,165	187	0
April	1,371	44	1,127	200	0
May	1,455	42	1,200	214	1
June	1,418	40	1,170	207	1
July	1,489	44	1,224	220	1
August	1,469	38	1,210	220	1
Sept	1,384	38	1,141	205	1
October	1,374	40	1,133	200	0
November	1,373	32	1,139	201	0
December	1,397	36	1,155	205	1
Year 2015					
January	1,293	31	1,068	194	1
February	1,137	24	944	168	1
March	1,230	28	1,010	192	1
April	1,241	41	1,020	180	0
May	1,297	45	1,076	176	0
June	1,322	44	1,104	175	0
July	1,451	104	1,154	194	0
August	1,386	101	1,105	181	0
Sept	1,282	97	1,002	183	0
October	1,289	94	1,021	174	1
November	1,307	70	1,042	194	1
Year to Date					
2013	15,478	422	12,777	2,273	7
2014	15,309	408	12,654	2,242	5
2015	14,235	678	11,545	2,009	4
Rolling 12 Months Ending in November					
2014	16,838	443	13,934	2,455	6
2015	15,631	713	12,699	2,214	4

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.6.B. Biogenic Municipal Solid Waste: Consumption for Useful Thermal Output, by Sector, 2005-November 2015 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2005	2,719	0	623	1,536	560
2006	2,840	0	725	1,595	520
2007	2,219	0	768	1,136	315
2008	2,328	0	806	1,514	8
2009	2,426	0	823	1,466	137
2010	2,287	0	819	1,316	152
2011	2,044	0	742	1,148	154
2012	1,986	0	522	1,273	190
2013	1,865	0	517	1,160	187
2014	1,955	0	650	1,104	200
Year 2013					
January	156	0	42	98	17
February	143	0	40	91	12
March	167	0	47	104	16
April	164	0	40	109	15
May	153	0	32	105	16
June	167	0	47	103	17
July	158	0	45	95	18
August	155	0	44	93	17
Sept	152	0	39	97	16
October	150	0	46	91	13
November	141	0	46	82	14
December	159	0	48	94	16
Year 2014					
January	203	0	59	126	17
February	140	0	49	76	15
March	154	0	52	86	15
April	155	0	58	82	15
May	166	0	57	92	18
June	163	0	57	90	16
July	164	0	54	93	17
August	161	0	47	92	22
Sept	157	0	48	92	18
October	165	0	56	93	17
November	158	0	55	88	15
December	169	0	59	93	17
Year 2015					
January	170	0	68	89	14
February	129	0	48	71	10
March	164	0	60	89	14
April	161	0	54	91	16
May	157	0	48	93	16
June	143	0	45	83	15
July	160	0	54	90	16
August	146	0	51	81	14
Sept	149	0	48	86	15
October	159	0	57	87	15
November	149	0	55	81	13
Year to Date					
2013	1,706	0	469	1,066	171
2014	1,786	0	591	1,011	184
2015	1,686	0	588	941	157
Rolling 12 Months Ending in November					
2014	1,945	0	640	1,105	200
2015	1,855	0	647	1,034	174

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.6.C. Biogenic Municipal Solid Waste: Consumption for Electricity Generation and

Useful Thermal Output, by Sector, 2005-November 2015 (Million Cubic Feet)

		Electric Power Sector			
Period	Total (all sectors)	Electric Utilities	Independent Power Producers	Commercial Sector	Industrial Sector
Annual Totals					
2005	22,089	560	17,655	3,289	584
2006	22,469	500	18,068	3,356	545
2007	21,796	553	17,885	2,921	437
2008	22,134	509	18,294	3,323	8
2009	22,095	465	17,872	3,622	137
2010	21,725	402	17,621	3,549	152
2011	19,016	388	15,367	3,103	158
2012	18,954	418	14,757	3,577	203
2013	18,871	456	14,574	3,646	195
2014	18,661	444	14,459	3,551	206
Year 2013					
January	1,484	32	1,157	278	17
February	1,342	30	1,040	259	13
March	1,579	31	1,222	309	17
April	1,535	43	1,161	315	16
May	1,633	43	1,250	323	17
June	1,669	40	1,289	322	18
July	1,707	44	1,323	322	18
August	1,633	40	1,257	317	18
Sept	1,559	38	1,193	312	17
October	1,552	41	1,201	297	13
November	1,491	40	1,152	284	14
December	1,687	35	1,328	307	17
Year 2014					
January	1,584	28	1,190	347	18
February	1,345	24	1,063	242	15
March	1,544	38	1,217	273	16
April	1,526	44	1,184	283	15
May	1,622	42	1,256	306	18
June	1,581	40	1,227	297	17
July	1,653	44	1,279	313	18
August	1,629	38	1,257	312	22
Sept	1,541	38	1,188	297	18
October	1,540	40	1,189	293	17
November	1,531	32	1,194	289	15
December	1,566	36	1,214	299	17
Year 2015					
January	1,463	31	1,135	282	15
February	1,266	24	992	239	11
March	1,393	28	1,070	281	14
April	1,401	41	1,074	270	16
May	1,453	45	1,123	269	16
June	1,465	44	1,149	258	15
July	1,611	104	1,208	284	16
August	1,532	101	1,156	261	14
Sept	1,431	97	1,050	269	15
October	1,448	94	1,078	261	16
November	1,455	70	1,097	274	14
Year to Date					
2013	17,184	422	13,246	3,339	178
2014	17,095	408	13,245	3,253	189
2015	15,921	678	12,132	2,950	161
Rolling 12 Months Ending in November					
2014	18,782	443	14,574	3,559	206
2015	17,486	713	13,346	3,249	178

Notes: Beginning with the collection of Form EIA-923 in January 2008, the methodology to allocate total fuel consumption for electricity generation and consumption for useful thermal output was changed.
The new methodology was retroactively applied to 2004-2007 data. See the Technical Notes (Appendix C) for further information. See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report.

Table 2.7.A. Consumption of Coal for Electricity Generation by State, by Sector, November 2015 and November 2014 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	102	256	-60.0%	4	62	97	193	0	0	NM	1
Connecticut	0	71	-100.0%	0	0	0	71	0	0	0	0
Maine	1	1	13.0%	0	0	1	1	0	0	0	0
Massachusetts	97	122	-21.0%	0	0	96	122	0	0	NM	0
New Hampshire	4	62	-93.0%	4	62	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	2,208	3,069	-28.0%	0	0	2,187	3,049	NM	0	21	20
New Jersey	44	56	-21.0%	0	0	44	56	0	0	0	0
New York	43	75	-43.0%	0	0	38	70	0	0	5	5
Pennsylvania	2,120	2,938	-28.0%	0	0	2,105	2,923	NM	0	15	14
East North Central	10,854	14,827	-27.0%	7,053	8,688	3,727	6,053	2	4	72	83
Illinois	2,928	4,548	-36.0%	332	477	2,547	4,018	NM	2	48	51
Indiana	2,495	3,435	-27.0%	2,252	3,185	241	248	1	1	NM	0
Michigan	2,333	2,235	4.4%	2,310	2,206	18	19	0	0	5	10
Ohio	1,625	3,085	-47.0%	700	1,310	921	1,769	NM	NM	4	6
Wisconsin	1,473	1,525	-3.4%	1,458	1,509	0	0	NM	0	15	16
West North Central	8,393	10,922	-23.0%	8,268	10,776	1	1	4	5	120	140
Iowa	802	1,489	-46.0%	737	1,423	0	0	2	3	63	63
Kansas	786	1,339	-41.0%	786	1,339	0	0	0	0	0	0
Minnesota	1,208	1,466	-18.0%	1,179	1,429	0	0	0	0	30	37
Missouri	2,648	3,204	-17.0%	2,644	3,198	1	1	2	2	NM	2
Nebraska	1,008	1,248	-19.0%	988	1,217	0	0	0	0	21	31
North Dakota	1,816	2,043	-11.0%	1,810	2,036	0	0	0	0	5	7
South Dakota	124	133	-6.7%	124	133	0	0	0	0	0	0
South Atlantic	6,254	9,478	-34.0%	5,509	8,372	708	1,056	NM	1	36	49
Delaware	11	0	--	0	0	11	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,308	1,844	-29.0%	1,301	1,793	2	48	0	0	NM	3
Georgia	827	1,403	-41.0%	823	1,396	0	0	0	0	NM	7
Maryland	254	444	-43.0%	0	0	252	440	0	0	2	3
North Carolina	740	1,539	-52.0%	728	1,519	NM	15	1	0	NM	5
South Carolina	555	877	-37.0%	551	873	0	0	0	0	4	3
Virginia	537	797	-33.0%	509	756	20	34	NM	1	7	6
West Virginia	2,024	2,575	-21.0%	1,596	2,035	418	519	0	0	10	21
East South Central	4,594	5,992	-23.0%	4,270	5,857	303	115	0	0	21	19
Alabama	1,395	1,591	-12.0%	1,391	1,589	0	0	0	0	NM	2
Kentucky	2,072	3,136	-34.0%	2,072	3,136	0	0	0	0	0	0
Mississippi	352	300	17.0%	49	185	303	115	0	0	0	0
Tennessee	774	964	-20.0%	758	947	0	0	0	0	16	17
West South Central	8,249	10,842	-24.0%	3,986	5,206	4,254	5,620	0	0	NM	16
Arkansas	683	1,429	-52.0%	523	1,220	159	208	0	0	1	1
Louisiana	763	872	-12.0%	554	394	209	478	0	0	0	0
Oklahoma	948	1,343	-29.0%	822	1,218	118	109	0	0	NM	15
Texas	5,854	7,198	-19.0%	2,086	2,374	3,768	4,824	0	0	0	0
Mountain	7,894	8,485	-7.0%	6,839	7,380	1,035	1,085	0	0	20	20
Arizona	1,404	1,729	-19.0%	1,404	1,729	0	0	0	0	0	0
Colorado	1,204	1,283	-6.2%	1,203	1,280	NM	2	0	0	NM	0
Idaho	1	2	-30.0%	0	0	0	0	0	0	1	2
Montana	954	984	-3.0%	NM	27	931	956	0	0	NM	1
Nevada	95	216	-56.0%	53	152	42	64	0	0	0	0
New Mexico	1,018	825	23.0%	1,018	825	0	0	0	0	0	0
Utah	1,080	1,300	-17.0%	1,061	1,261	NM	38	0	0	0	0
Wyoming	2,136	2,147	-0.5%	2,075	2,105	NM	24	0	0	18	17
Pacific Contiguous	539	676	-20.0%	181	202	351	467	0	0	6	7
California	5	6	-7.5%	0	0	NM	0	0	0	5	6
Oregon	181	202	-10.0%	181	202	0	0	0	0	0	0
Washington	352	468	-25.0%	0	0	351	467	0	0	1	1
Pacific Noncontiguous	113	106	6.6%	31	19	78	81	4	4	NM	2
Alaska	52	41	26.0%	31	19	18	18	4	4	0	0
Hawaii	61	65	-5.5%	0	0	61	62	0	0	NM	2
U.S. Total	49,200	64,651	-24.0%	36,139	46,561	12,742	17,720	11	14	306	356

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.7.B. Consumption of Coal for Electricity Generation by State, by Sector, Year-to-Date through November 2015 and November 2014 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	1,711	2,180	-22.0%	398	502	1,300	1,667	0	0	12	12
Connecticut	359	490	-27.0%	0	0	359	490	0	0	0	0
Maine	20	17	21.0%	0	0	12	9	0	0	8	7
Massachusetts	934	1,172	-20.0%	0	0	929	1,167	0	0	5	4
New Hampshire	398	502	-21.0%	398	502	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	31,231	38,202	-18.0%	0	0	31,005	37,958	2	5	225	239
New Jersey	711	1,009	-30.0%	0	0	711	1,009	0	0	0	0
New York	1,063	2,128	-50.0%	0	0	1,002	2,065	0	0	61	62
Pennsylvania	29,457	35,065	-16.0%	0	0	29,292	34,883	2	5	164	177
East North Central	154,334	175,006	-12.0%	97,915	108,674	55,537	65,357	39	52	843	923
Illinois	41,416	47,617	-13.0%	4,768	5,253	36,085	41,786	13	16	551	563
Indiana	36,621	44,803	-18.0%	34,051	42,249	2,555	2,534	11	15	4	5
Michigan	27,355	27,381	-0.1%	27,065	27,063	210	193	15	19	65	106
Ohio	28,912	35,667	-19.0%	12,175	14,761	16,687	20,845	1	1	49	61
Wisconsin	20,030	19,537	2.5%	19,856	19,348	0	0	NM	0	174	189
West North Central	116,225	125,905	-7.7%	114,811	124,273	15	17	46	64	1,352	1,550
Iowa	16,756	18,490	-9.4%	16,012	17,711	0	0	27	34	717	746
Kansas	14,862	16,847	-12.0%	14,862	16,847	0	0	0	0	0	0
Minnesota	13,791	15,095	-8.6%	13,459	14,722	0	0	3	9	329	364
Missouri	35,590	39,270	-9.4%	35,545	39,209	15	17	17	22	14	22
Nebraska	13,543	14,190	-4.6%	13,309	13,834	0	0	0	0	234	356
North Dakota	20,825	20,390	2.1%	20,766	20,328	0	0	0	0	59	62
South Dakota	858	1,622	-47.0%	858	1,622	0	0	0	0	0	0
South Atlantic	99,603	116,608	-15.0%	87,235	101,479	11,854	14,556	27	21	487	552
Delaware	274	391	-30.0%	0	0	274	391	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	17,837	20,962	-15.0%	17,364	20,333	423	583	0	0	50	46
Georgia	18,459	21,391	-14.0%	18,411	21,299	0	0	0	0	49	93
Maryland	5,824	6,997	-17.0%	0	0	5,790	6,952	5	7	29	38
North Carolina	15,218	18,318	-17.0%	14,874	17,918	283	341	13	5	48	53
South Carolina	8,774	10,892	-19.0%	8,721	10,841	0	0	0	0	54	52
Virginia	7,173	8,492	-16.0%	6,630	7,854	455	548	NM	9	81	82
West Virginia	26,043	29,165	-11.0%	21,236	23,233	4,630	5,742	0	0	177	189
East South Central	70,672	80,737	-12.0%	67,447	78,126	2,995	2,372	0	3	230	236
Alabama	19,800	22,213	-11.0%	19,757	22,182	0	0	0	0	43	31
Kentucky	32,060	35,744	-10.0%	32,060	35,744	0	0	0	0	0	0
Mississippi	4,672	6,174	-24.0%	1,677	3,802	2,995	2,372	0	0	0	0
Tennessee	14,140	16,606	-15.0%	13,953	16,398	0	0	0	3	187	205
West South Central	118,315	141,309	-16.0%	58,397	71,686	59,756	69,433	0	0	162	191
Arkansas	12,180	18,033	-32.0%	10,054	15,965	2,114	2,055	0	0	13	13
Louisiana	10,081	11,549	-13.0%	6,135	5,163	3,945	6,386	0	0	0	0
Oklahoma	14,945	17,493	-15.0%	13,698	16,186	1,098	1,130	0	0	149	178
Texas	81,109	94,234	-14.0%	28,509	34,372	52,600	59,862	0	0	0	0
Mountain	93,847	98,668	-4.9%	82,850	87,609	10,542	10,594	0	0	456	466
Arizona	18,318	21,056	-13.0%	18,318	21,056	0	0	0	0	0	0
Colorado	15,889	16,282	-2.4%	15,867	16,255	18	22	0	0	NM	4
Idaho	15	16	-11.0%	0	0	0	0	0	0	15	16
Montana	9,633	9,227	4.4%	252	257	9,377	8,964	0	0	5	7
Nevada	1,404	3,269	-57.0%	959	2,552	445	717	0	0	0	0
New Mexico	10,844	10,707	1.3%	10,844	10,707	0	0	0	0	0	0
Utah	13,539	13,942	-2.9%	13,034	13,280	271	412	0	0	234	250
Wyoming	24,205	24,169	0.2%	23,576	23,502	430	478	0	0	199	188
Pacific Contiguous	4,187	6,096	-31.0%	1,175	1,705	2,943	4,323	0	0	69	68
California	85	285	-70.0%	0	0	NM	227	0	0	61	57
Oregon	1,175	1,705	-31.0%	1,175	1,705	0	0	0	0	0	0
Washington	2,927	4,106	-29.0%	0	0	2,919	4,095	0	0	8	10
Pacific Noncontiguous	1,105	1,124	-1.7%	249	207	800	858	37	40	NM	18
Alaska	474	442	7.1%	249	207	187	195	37	40	0	0
Hawaii	631	682	-7.4%	0	0	613	663	0	0	NM	18
U.S. Total	691,230	785,834	-12.0%	510,477	574,259	176,747	207,134	151	185	3,854	4,255

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.8.A. Consumption of Petroleum Liquids for Electricity Generation by State, by Sector, November 2015 and November 2014 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	42	35	20.0%	8	3	29	21	NM	7	NM	4
Connecticut	6	9	-39.0%	1	0	NM	9	NM	0	NM	0
Maine	10	9	9.6%	NM	0	9	5	NM	0	1	4
Massachusetts	12	11	13.0%	1	0	9	4	NM	6	NM	0
New Hampshire	7	4	61.0%	5	2	2	2	NM	0	NM	0
Rhode Island	7	NM	NM	1	0	5	1	NM	NM	0	0
Vermont	NM	0	NM	NM	0	0	0	NM	0	0	0
Middle Atlantic	68	79	-14.0%	10	11	52	59	NM	1	5	9
New Jersey	3	3	8.4%	NM	NM	3	3	NM	0	NM	0
New York	21	31	-34.0%	10	11	NM	12	NM	1	2	8
Pennsylvania	44	44	-1.5%	NM	0	41	43	NM	0	2	1
East North Central	78	135	-42.0%	49	105	26	27	NM	NM	3	2
Illinois	10	13	-28.0%	4	5	6	8	NM	0	NM	0
Indiana	15	29	-49.0%	13	27	NM	0	NM	0	2	2
Michigan	14	50	-71.0%	14	49	0	0	0	0	NM	0
Ohio	32	26	23.0%	12	7	20	19	NM	0	NM	0
Wisconsin	7	17	-57.0%	7	16	NM	0	NM	NM	NM	0
West North Central	51	59	-13.0%	48	58	NM	1	NM	0	NM	0
Iowa	5	16	-66.0%	5	16	NM	0	NM	0	NM	0
Kansas	14	3	386.0%	14	3	0	0	0	0	0	0
Minnesota	NM	3	NM	4	3	NM	0	NM	0	NM	0
Missouri	11	21	-46.0%	11	21	NM	0	NM	0	0	0
Nebraska	6	11	-45.0%	6	11	0	0	0	0	0	0
North Dakota	5	4	27.0%	5	4	0	0	NM	0	NM	0
South Dakota	NM	1	NM	NM	1	NM	0	NM	0	0	0
South Atlantic	427	339	26.0%	333	197	82	104	NM	19	12	18
Delaware	4	0	NM	NM	0	4	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	203	73	177.0%	201	69	NM	2	0	0	NM	2
Georgia	21	46	-55.0%	11	24	3	7	NM	0	7	14
Maryland	11	31	-63.0%	2	0	10	12	NM	19	NM	0
North Carolina	56	39	44.0%	53	35	NM	3	NM	0	NM	1
South Carolina	26	19	34.0%	23	17	NM	1	NM	0	2	1
Virginia	80	100	-20.0%	17	21	63	79	NM	0	NM	0
West Virginia	26	30	-13.0%	26	30	0	0	0	0	0	0
East South Central	48	48	1.0%	45	43	NM	1	NM	0	NM	4
Alabama	9	15	-39.0%	6	11	NM	1	0	0	NM	3
Kentucky	24	19	28.0%	24	19	0	0	0	0	0	0
Mississippi	2	4	-63.0%	1	4	0	0	0	0	0	0
Tennessee	14	10	39.0%	14	10	NM	0	NM	0	NM	0
West South Central	21	27	-24.0%	12	17	7	9	NM	0	NM	1
Arkansas	7	6	25.0%	4	4	3	1	0	0	1	0
Louisiana	5	6	-28.0%	3	1	1	6	0	0	0	0
Oklahoma	NM	1	NM	1	1	0	0	NM	0	NM	0
Texas	7	14	-46.0%	4	11	3	2	NM	0	NM	0
Mountain	46	32	45.0%	43	29	2	2	NM	0	1	0
Arizona	7	9	-24.0%	7	9	0	0	NM	0	0	0
Colorado	NM	3	NM	NM	3	0	0	0	0	NM	0
Idaho	NM	0	NM	NM	0	0	0	0	0	0	0
Montana	NM	2	NM	NM	1	1	2	0	0	0	0
Nevada	2	2	-5.7%	2	2	0	0	0	0	0	0
New Mexico	11	6	79.0%	11	6	0	0	0	0	NM	0
Utah	5	5	-2.7%	4	5	NM	0	0	0	NM	0
Wyoming	11	3	246.0%	10	3	0	0	0	0	0	0
Pacific Contiguous	14	12	17.0%	8	8	5	2	NM	0	1	1
California	8	6	43.0%	5	5	NM	1	NM	0	NM	0
Oregon	1	1	30.0%	1	1	0	0	NM	0	0	0
Washington	5	6	-12.0%	NM	3	3	2	NM	0	1	1
Pacific Noncontiguous	967	915	5.6%	835	757	100	137	1	1	30	20
Alaska	110	99	11.0%	103	93	0	0	NM	0	7	7
Hawaii	857	816	5.0%	733	665	100	137	1	1	22	14
U.S. Total	1,763	1,681	4.9%	1,393	1,230	305	362	8	28	57	60

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.8.B. Consumption of Petroleum Liquids for Electricity Generation by State, by Sector, Year-to-Date through November 2015 and November 2014 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	3,408	3,610	-5.6%	342	501	2,918	2,928	97	132	52	49
Connecticut	727	883	-18.0%	11	16	700	847	NM	14	NM	6
Maine	897	519	73.0%	NM	1	843	471	NM	6	47	42
Massachusetts	1,335	1,620	-18.0%	97	238	1,189	1,306	48	75	NM	1
New Hampshire	289	450	-36.0%	208	212	70	222	11	16	NM	0
Rhode Island	142	112	27.0%	19	21	115	83	NM	NM	0	0
Vermont	NM	25	NM	NM	12	0	0	NM	13	0	0
Middle Atlantic	4,613	5,340	-14.0%	1,439	1,569	3,019	3,608	65	63	90	100
New Jersey	478	765	-38.0%	NM	6	473	757	NM	1	NM	1
New York	3,037	3,380	-10.0%	1,434	1,561	1,485	1,695	59	56	59	69
Pennsylvania	1,098	1,194	-8.1%	NM	2	1,061	1,156	NM	6	30	30
East North Central	1,019	1,384	-26.0%	721	879	261	471	5	5	32	29
Illinois	98	155	-37.0%	36	53	61	102	NM	0	NM	0
Indiana	270	276	-2.1%	248	259	NM	0	NM	1	21	16
Michigan	208	265	-22.0%	201	258	0	0	NM	2	4	5
Ohio	365	566	-36.0%	166	196	194	364	NM	0	5	5
Wisconsin	78	122	-36.0%	69	113	5	5	1	2	2	2
West North Central	632	735	-14.0%	586	687	NM	30	14	17	1	2
Iowa	83	125	-34.0%	80	122	NM	2	NM	0	NM	0
Kansas	109	105	4.4%	109	105	0	0	0	0	0	0
Minnesota	98	136	-28.0%	55	91	NM	28	13	16	1	1
Missouri	194	206	-5.8%	194	206	NM	0	NM	0	0	0
Nebraska	54	93	-42.0%	54	93	0	0	0	0	0	0
North Dakota	50	47	6.9%	50	47	0	0	NM	0	NM	0
South Dakota	45	23	95.0%	45	23	NM	0	NM	0	0	0
South Atlantic	5,583	6,398	-13.0%	3,993	4,201	1,196	1,810	184	193	210	195
Delaware	243	294	-17.0%	NM	15	237	279	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,080	898	20.0%	1,053	870	NM	11	0	0	17	17
Georgia	366	472	-22.0%	143	222	86	112	NM	3	134	134
Maryland	613	1,066	-42.0%	22	25	411	853	178	187	NM	1
North Carolina	804	860	-6.5%	744	791	46	51	NM	0	14	17
South Carolina	397	486	-18.0%	351	437	17	31	NM	0	28	18
Virginia	1,849	2,061	-10.0%	1,464	1,629	367	422	NM	2	16	8
West Virginia	232	262	-11.0%	209	213	23	49	0	0	0	0
East South Central	635	770	-18.0%	572	715	29	25	NM	0	34	29
Alabama	149	191	-22.0%	91	141	27	24	0	0	31	27
Kentucky	217	224	-3.1%	217	224	0	0	0	0	0	0
Mississippi	29	29	-1.0%	28	29	0	0	0	0	1	1
Tennessee	239	325	-26.0%	235	321	NM	2	NM	0	NM	2
West South Central	420	331	27.0%	247	156	160	161	NM	1	12	13
Arkansas	94	41	130.0%	67	26	18	12	0	0	9	3
Louisiana	113	80	40.0%	87	26	25	47	0	0	0	8
Oklahoma	15	22	-31.0%	14	21	0	0	NM	0	NM	1
Texas	198	188	5.0%	78	83	116	102	NM	1	NM	2
Mountain	423	429	-1.5%	382	385	35	37	NM	NM	6	7
Arizona	85	100	-15.0%	85	100	0	0	NM	0	0	0
Colorado	26	31	-17.0%	26	31	0	0	0	NM	NM	0
Idaho	NM	0	NM	NM	0	0	0	0	0	0	0
Montana	45	50	-9.1%	18	18	27	32	0	0	0	0
Nevada	29	28	5.5%	23	24	NM	4	0	0	0	0
New Mexico	122	113	8.2%	122	113	0	0	0	0	NM	0
Utah	32	39	-18.0%	30	37	NM	1	0	0	NM	1
Wyoming	82	68	21.0%	77	62	0	0	0	0	5	6
Pacific Contiguous	209	145	44.0%	77	83	85	42	NM	2	45	18
California	168	91	84.0%	62	58	73	27	NM	1	32	5
Oregon	10	15	-31.0%	10	15	0	0	NM	0	0	0
Washington	31	39	-20.0%	NM	10	12	15	NM	0	13	13
Pacific Noncontiguous	10,947	10,668	2.6%	9,494	9,208	1,216	1,209	12	9	224	242
Alaska	1,291	1,142	13.0%	1,195	1,058	0	0	3	3	92	81
Hawaii	9,656	9,526	1.4%	8,299	8,150	1,216	1,209	9	5	132	162
U.S. Total	27,888	29,810	-6.4%	17,853	18,385	8,948	10,321	380	421	708	684

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.9.A. Consumption of Petroleum Coke for Electricity Generation by State, by Sector, November 2015 and November 2014 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	NM	4	NM	0	0	0	0	0	0	NM	4
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	NM	4	NM	0	0	0	0	0	0	NM	4
East North Central	115	82	40.0%	64	59	47	17	0	0	NM	6
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	55	25	122.0%	55	25	0	0	0	0	0	0
Michigan	NM	38	NM	5	33	2	1	0	0	NM	3
Ohio	45	16	192.0%	0	0	45	16	0	0	NM	0
Wisconsin	6	4	36.0%	4	1	0	0	0	0	2	3
West North Central	NM	0	NM	0	0	0	0	0	0	NM	0
Iowa	NM	0	NM	0	0	0	0	0	0	NM	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	35	2	NM	32	0	0	0	0	0	3	2
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	32	0	--	32	0	0	0	0	0	0	0
Georgia	3	2	39.0%	0	0	0	0	0	0	3	2
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	30	29	4.6%	30	29	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	30	29	4.6%	30	29	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	58	156	-63.0%	52	140	0	0	0	0	NM	15
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	54	146	-63.0%	52	140	0	0	0	0	NM	6
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	NM	9	NM	0	0	0	0	0	0	NM	9
Mountain	15	16	-4.8%	0	0	15	16	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	15	16	-4.8%	0	0	15	16	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	257	288	-11.0%	178	228	62	33	0	0	NM	27

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.9.B. Consumption of Petroleum Coke for Electricity Generation by State, by Sector, Year-to-Date through November 2015 and November 2014 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	45	49	-8.4%	0	0	0	0	0	0	45	49
New Jersey	NM	NM	NM	0	0	0	0	0	0	NM	NM
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	41	45	-8.9%	0	0	0	0	0	0	41	45
East North Central	1,189	1,155	3.0%	656	699	475	394	0	0	58	61
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	348	333	4.5%	348	333	0	0	0	0	0	0
Michigan	328	373	-12.0%	280	324	13	20	0	0	36	28
Ohio	463	374	24.0%	0	0	463	374	0	0	0	0
Wisconsin	50	76	-33.0%	28	42	0	0	0	0	22	33
West North Central	28	33	-13.0%	0	0	0	0	2	2	27	31
Iowa	28	33	-13.0%	0	0	0	0	2	2	27	31
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	555	472	18.0%	527	442	0	0	0	0	28	31
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	527	442	19.0%	527	442	0	0	0	0	0	0
Georgia	28	31	-8.0%	0	0	0	0	0	0	28	31
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	345	365	-5.6%	345	365	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	345	365	-5.6%	345	365	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	1,475	1,770	-17.0%	1,359	1,599	0	0	0	0	115	171
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,411	1,655	-15.0%	1,359	1,599	0	0	0	0	52	56
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	63	114	-45.0%	0	0	0	0	0	0	63	114
Mountain	168	137	22.0%	0	0	168	137	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	168	137	22.0%	0	0	168	137	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	NM	8	NM	0	0	NM	8	0	0	0	0
California	NM	8	NM	0	0	NM	8	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	3,807	3,989	-4.5%	2,888	3,105	645	539	2	2	273	342

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.10.A. Consumption of Natural Gas for Electricity Generation by State, by Sector, November 2015 and November 2014 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	29,601	24,581	20.0%	200	120	27,900	22,906	744	754	756	801
Connecticut	10,516	9,141	15.0%	0	7	9,789	8,368	326	336	401	430
Maine	2,083	2,477	-16.0%	0	0	1,813	2,150	NM	25	245	302
Massachusetts	8,803	8,330	5.7%	167	79	8,202	7,842	335	350	NM	59
New Hampshire	3,819	2,002	91.0%	32	31	3,762	1,952	NM	11	NM	9
Rhode Island	4,379	2,627	67.0%	0	0	4,334	2,595	NM	33	0	0
Vermont	1	3	-63.0%	1	3	0	0	0	0	0	0
Middle Atlantic	93,054	79,824	17.0%	8,816	8,971	82,432	69,193	869	772	937	888
New Jersey	23,781	20,352	17.0%	NM	64	23,298	19,844	NM	143	285	300
New York	33,172	32,337	2.6%	8,742	8,902	23,685	22,787	626	526	118	122
Pennsylvania	36,101	27,135	33.0%	NM	5	35,450	26,562	NM	102	533	465
East North Central	57,085	35,889	59.0%	25,166	17,702	28,837	16,007	1,397	1,088	1,685	1,092
Illinois	7,692	3,395	127.0%	NM	324	6,434	2,193	762	681	235	197
Indiana	11,515	8,156	41.0%	8,212	6,489	2,825	1,349	89	48	389	271
Michigan	14,445	7,264	99.0%	4,082	1,804	9,078	4,659	362	270	922	531
Ohio	15,870	11,402	39.0%	5,520	4,043	10,215	7,291	NM	44	NM	23
Wisconsin	7,563	5,673	33.0%	7,091	5,042	285	516	82	45	104	70
West North Central	8,182	7,744	5.7%	7,013	6,328	701	977	262	247	205	192
Iowa	652	807	-19.0%	530	656	0	0	NM	39	NM	113
Kansas	969	1,381	-30.0%	878	1,327	0	0	0	0	91	54
Minnesota	3,250	2,301	41.0%	2,873	1,748	NM	331	NM	205	NM	16
Missouri	2,358	2,519	-6.4%	1,791	1,869	543	645	20	3	NM	1
Nebraska	160	222	-28.0%	160	222	0	0	NM	0	NM	0
North Dakota	NM	148	NM	NM	141	0	0	0	0	NM	7
South Dakota	521	366	42.0%	521	366	0	0	0	0	0	0
South Atlantic	175,578	132,569	32.0%	139,648	108,167	33,257	22,087	532	361	2,141	1,954
Delaware	3,108	4,933	-37.0%	NM	32	2,298	4,207	0	0	778	694
District of Columbia	NM	55	NM	0	0	0	0	NM	55	0	0
Florida	92,141	67,739	36.0%	82,998	64,083	8,339	2,989	NM	16	785	650
Georgia	27,839	25,241	10.0%	19,766	18,189	7,755	6,627	0	0	318	425
Maryland	3,474	1,285	170.0%	0	0	3,009	981	437	283	NM	22
North Carolina	17,816	16,951	5.1%	16,518	14,314	1,218	2,583	6	0	74	54
South Carolina	13,836	5,678	144.0%	12,158	4,758	1,655	902	NM	3	17	15
Virginia	16,550	10,367	60.0%	8,138	6,777	8,265	3,493	NM	4	141	93
West Virginia	755	319	136.0%	37	14	718	306	0	0	0	0
East South Central	68,474	57,434	19.0%	42,050	30,107	25,270	26,192	NM	112	1,048	1,024
Alabama	31,469	33,909	-7.2%	10,207	9,788	20,621	23,459	0	0	641	662
Kentucky	5,446	2,210	146.0%	5,266	2,068	47	1	0	0	134	140
Mississippi	25,939	17,021	52.0%	21,136	14,145	4,596	2,725	NM	7	198	144
Tennessee	5,620	4,295	31.0%	5,442	4,106	NM	6	NM	104	75	78
West South Central	191,144	162,293	18.0%	60,253	48,515	91,582	73,573	646	630	38,663	39,574
Arkansas	5,027	3,807	32.0%	1,753	2,105	3,097	1,510	NM	1	175	191
Louisiana	46,300	36,096	28.0%	25,272	17,177	3,449	1,005	NM	145	17,424	17,769
Oklahoma	20,558	12,828	60.0%	13,946	10,040	6,528	2,722	NM	0	80	66
Texas	119,260	109,562	8.9%	19,281	19,193	78,508	68,337	486	483	20,985	21,548
Mountain	56,188	50,070	12.0%	41,340	36,723	13,601	12,210	332	318	915	819
Arizona	17,760	14,271	24.0%	10,519	7,369	7,133	6,806	108	97	0	0
Colorado	9,484	9,011	5.3%	8,152	6,389	1,313	2,592	3	8	NM	23
Idaho	2,254	1,483	52.0%	994	836	1,197	635	0	0	63	12
Montana	666	695	-4.2%	615	617	NM	46	0	0	0	32
Nevada	15,183	13,037	16.0%	13,817	11,438	1,149	1,384	NM	50	164	165
New Mexico	5,495	5,700	-3.6%	2,887	5,419	2,483	195	94	85	NM	1
Utah	4,962	5,406	-8.2%	4,311	4,622	NM	389	NM	78	315	317
Wyoming	385	466	-17.0%	NM	32	NM	163	0	0	326	270
Pacific Contiguous	83,961	79,972	5.0%	34,507	29,306	42,336	43,951	1,198	1,213	5,919	5,502
California	62,790	64,543	-2.7%	21,559	20,002	34,303	38,007	1,101	1,119	5,827	5,415
Oregon	11,367	9,323	22.0%	4,427	3,790	6,797	5,385	NM	89	52	58
Washington	9,804	6,106	61.0%	8,521	5,513	1,237	560	NM	4	40	29
Pacific Noncontiguous	2,262	2,903	-22.0%	2,164	2,821	0	0	NM	2	NM	80
Alaska	2,262	2,903	-22.0%	2,164	2,821	0	0	NM	2	NM	80
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	765,530	633,279	21.0%	361,158	288,760	345,917	287,096	6,088	5,496	52,366	51,927

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.10.B. Consumption of Nautral Gas for Electricity Generation by State, by Sector, Year-to-Date through November 2015 and November 2014 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	374,595	331,066	13.0%	4,004	3,440	353,325	306,989	8,649	8,599	8,617	12,038
Connecticut	116,240	98,189	18.0%	25	117	107,663	89,925	3,836	3,601	4,717	4,546
Maine	19,090	28,925	-34.0%	0	0	16,020	22,207	283	283	2,787	6,435
Massachusetts	151,510	133,056	14.0%	3,653	2,901	142,953	125,058	3,920	4,165	984	932
New Hampshire	40,258	28,485	41.0%	307	390	39,660	27,809	NM	161	130	125
Rhode Island	47,479	42,379	12.0%	0	0	47,029	41,990	450	389	0	0
Vermont	19	31	-41.0%	19	31	0	0	0	0	0	0
Middle Atlantic	1,100,068	985,982	12.0%	111,015	103,097	968,263	863,183	9,643	8,867	11,147	10,835
New Jersey	258,282	221,110	17.0%	NM	650	252,506	215,608	1,510	1,453	3,438	3,399
New York	437,514	410,176	6.7%	110,072	102,380	319,215	300,235	6,788	6,086	1,438	1,475
Pennsylvania	404,272	354,696	14.0%	NM	67	396,541	347,340	1,344	1,328	6,271	5,961
East North Central	634,430	427,683	48.0%	270,504	171,677	332,152	229,570	14,923	13,393	16,850	13,043
Illinois	83,276	45,904	81.0%	5,489	3,380	66,432	31,811	8,611	8,080	2,744	2,633
Indiana	111,200	69,015	61.0%	86,344	47,527	20,108	17,590	906	589	3,842	3,309
Michigan	156,956	100,572	56.0%	40,961	29,541	103,500	61,968	3,544	3,034	8,951	6,029
Ohio	192,773	157,445	22.0%	54,416	43,045	136,884	113,004	1,059	1,037	414	359
Wisconsin	90,224	54,746	65.0%	83,294	48,184	5,227	5,197	803	653	899	712
West North Central	134,535	97,293	38.0%	113,964	81,216	15,261	12,017	3,279	2,503	2,031	1,557
Iowa	17,081	10,129	69.0%	15,892	9,193	NM	0	537	425	650	511
Kansas	16,611	18,070	-8.1%	15,788	17,429	0	0	0	0	823	641
Minnesota	49,367	27,667	78.0%	41,122	21,685	5,963	4,323	1,902	1,382	380	277
Missouri	37,222	32,530	14.0%	27,050	24,109	9,296	7,694	838	695	NM	32
Nebraska	4,519	3,920	15.0%	4,496	3,913	0	0	NM	2	NM	6
North Dakota	3,308	1,800	84.0%	3,189	1,710	0	0	0	0	118	90
South Dakota	6,426	3,178	102.0%	6,426	3,178	0	0	0	0	0	0
South Atlantic	2,100,634	1,732,590	21.0%	1,686,528	1,414,210	382,667	292,226	6,124	6,186	25,315	19,967
Delaware	53,167	48,970	8.6%	NM	303	42,089	41,873	0	0	10,639	6,794
District of Columbia	713	710	0.5%	0	0	0	0	713	710	0	0
Florida	1,075,352	972,043	11.0%	1,004,581	908,817	62,330	55,153	NM	220	8,262	7,852
Georgia	331,772	268,499	24.0%	215,336	188,493	112,521	76,991	0	0	3,915	3,014
Maryland	40,932	23,017	78.0%	0	0	35,565	17,609	5,080	5,152	287	256
North Carolina	242,710	185,124	31.0%	214,403	160,769	27,584	23,812	46	2	676	541
South Carolina	122,768	80,121	53.0%	109,369	70,038	13,184	9,818	NM	49	166	216
Virginia	220,498	147,612	49.0%	141,082	83,804	77,999	62,460	NM	54	1,359	1,293
West Virginia	12,725	6,495	96.0%	1,320	1,985	11,394	4,509	0	0	NM	1
East South Central	788,062	608,397	30.0%	470,334	356,372	303,885	238,893	1,210	1,136	12,633	11,996
Alabama	370,672	321,162	15.0%	103,406	98,388	259,189	214,738	0	0	8,077	8,036
Kentucky	44,071	27,138	62.0%	35,621	23,897	6,749	1,526	0	0	1,702	1,715
Mississippi	307,918	216,615	42.0%	267,912	192,266	37,874	22,569	NM	91	2,037	1,689
Tennessee	65,401	43,481	50.0%	63,396	41,821	NM	60	1,115	1,045	817	556
West South Central	2,436,114	2,104,549	16.0%	798,336	676,360	1,215,652	999,414	7,280	7,051	414,846	421,724
Arkansas	98,112	63,125	55.0%	31,117	14,539	65,126	46,953	NM	22	1,846	1,611
Louisiana	488,793	430,796	13.0%	280,639	229,098	24,272	13,580	1,708	1,688	182,174	186,431
Oklahoma	232,416	192,263	21.0%	153,115	130,988	78,472	60,552	NM	0	806	722
Texas	1,616,792	1,418,365	14.0%	333,465	301,735	1,047,782	878,329	5,526	5,340	230,019	232,960
Mountain	664,358	591,668	12.0%	476,901	410,692	174,334	167,476	3,525	3,983	9,598	9,517
Arizona	232,550	197,434	18.0%	128,261	100,105	103,126	95,994	1,163	1,335	0	0
Colorado	82,099	86,078	-4.6%	63,388	64,827	18,495	20,987	3	47	213	217
Idaho	24,842	17,109	45.0%	14,662	8,913	9,748	7,933	0	0	432	262
Montana	7,070	5,558	27.0%	6,524	4,910	546	391	0	0	0	257
Nevada	187,645	154,011	22.0%	173,424	134,791	11,870	16,695	566	593	1,785	1,932
New Mexico	71,088	69,347	2.5%	43,551	47,023	26,186	20,782	1,002	1,150	349	392
Utah	55,067	58,826	-6.4%	46,585	49,827	4,203	4,286	791	859	3,489	3,854
Wyoming	3,997	3,306	21.0%	506	295	NM	407	0	0	3,331	2,604
Pacific Contiguous	969,207	961,436	0.8%	374,740	345,313	521,255	535,472	12,656	14,228	60,556	66,423
California	785,525	806,875	-2.6%	262,589	249,453	451,417	478,147	11,710	13,411	59,809	65,863
Oregon	101,681	81,354	25.0%	41,398	31,124	58,924	49,131	878	766	480	333
Washington	82,001	73,206	12.0%	70,752	64,736	10,914	8,193	67	51	267	227
Pacific Noncontiguous	26,386	29,826	-12.0%	25,386	29,006	0	0	NM	12	980	808
Alaska	26,386	29,826	-12.0%	25,386	29,006	0	0	NM	12	980	808
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	9,228,388	7,870,489	17.0%	4,331,713	3,591,381	4,266,793	3,645,240	67,310	65,957	562,573	567,910

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.11.A. Consumption of Landfill Gas for Electricity Generation by State, by Sector, November 2015 and November 2014 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector: Electric Utilities		Electric Power Sector: Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	1,071	1,022	4.8%	0	0	988	968	NM	54	0	0
Connecticut	NM	46	NM	0	0	NM	46	0	0	0	0
Maine	83	72	15.0%	0	0	83	72	0	0	0	0
Massachusetts	400	364	9.9%	0	0	400	364	0	0	0	0
New Hampshire	182	134	36.0%	0	0	99	80	NM	54	0	0
Rhode Island	311	355	-13.0%	0	0	311	355	0	0	0	0
Vermont	NM	51	NM	0	0	NM	51	0	0	0	0
Middle Atlantic	5,300	4,307	23.0%	0	0	5,081	4,144	NM	48	136	114
New Jersey	988	767	29.0%	0	0	935	736	NM	32	0	0
New York	1,695	1,503	13.0%	0	0	1,695	1,503	0	0	0	0
Pennsylvania	2,618	2,037	29.0%	0	0	2,451	1,906	NM	17	136	114
East North Central	6,462	4,660	39.0%	728	523	5,622	4,021	NM	39	NM	77
Illinois	1,409	872	62.0%	0	0	1,409	872	0	0	0	0
Indiana	739	563	31.0%	701	502	NM	47	0	0	NM	14
Michigan	2,031	1,590	28.0%	0	0	2,031	1,590	0	0	0	0
Ohio	1,047	180	482.0%	NM	2	1,034	178	0	0	0	0
Wisconsin	1,235	1,456	-15.0%	NM	19	1,132	1,335	NM	39	NM	63
West North Central	1,057	765	38.0%	325	236	732	528	0	0	0	0
Iowa	253	119	113.0%	0	0	253	119	0	0	0	0
Kansas	150	117	28.0%	0	0	150	117	0	0	0	0
Minnesota	358	305	17.0%	77	65	281	240	0	0	0	0
Missouri	141	128	10.0%	93	77	NM	51	0	0	0	0
Nebraska	155	95	62.0%	155	95	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	4,678	2,953	58.0%	468	427	3,530	2,179	375	154	305	193
Delaware	166	139	20.0%	0	0	132	111	0	0	NM	27
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	649	615	5.6%	145	161	504	454	0	0	0	0
Georgia	435	326	33.0%	0	0	303	260	NM	32	NM	34
Maryland	269	245	9.7%	0	0	180	154	NM	91	0	0
North Carolina	1,170	100	NM	0	0	976	91	NM	9	0	0
South Carolina	548	419	31.0%	315	260	NM	28	0	0	198	131
Virginia	1,431	1,102	30.0%	NM	6	1,390	1,074	NM	21	0	0
West Virginia	NM	NM	NM	0	0	NM	NM	0	0	0	0
East South Central	515	304	69.0%	210	127	305	177	0	0	0	0
Alabama	94	60	57.0%	0	0	94	60	0	0	0	0
Kentucky	222	134	65.0%	210	127	NM	7	0	0	0	0
Mississippi	NM	14	NM	0	0	NM	14	0	0	0	0
Tennessee	175	95	83.0%	0	0	175	95	0	0	0	0
West South Central	1,587	1,473	7.8%	0	0	1,530	1,430	NM	43	0	0
Arkansas	161	141	15.0%	0	0	161	141	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	NM	37	NM	0	0	NM	37	0	0	0	0
Texas	1,389	1,296	7.2%	0	0	1,332	1,252	NM	43	0	0
Mountain	508	460	11.0%	83	69	426	378	0	13	0	0
Arizona	151	128	18.0%	63	52	88	76	0	0	0	0
Colorado	106	105	0.3%	0	0	106	105	0	0	0	0
Idaho	NM	68	NM	NM	16	NM	39	0	13	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	NM	42	NM	0	0	NM	42	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	142	116	23.0%	0	0	142	116	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	5,782	4,662	24.0%	675	648	3,227	2,735	1,880	1,279	0	0
California	4,691	3,790	24.0%	181	278	2,690	2,277	1,820	1,235	0	0
Oregon	606	508	19.0%	130	111	415	352	NM	44	0	0
Washington	484	365	33.0%	363	259	122	106	0	0	0	0
Pacific Noncontiguous	NM	93	NM	0	0	0	0	NM	93	0	0
Alaska	NM	93	NM	0	0	0	0	NM	93	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	27,119	20,698	31.0%	2,488	2,030	21,439	16,561	2,683	1,723	509	385

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.11.B. Consumption of Landfill Gas for Electricity Generation by State, by Sector, Year-to-Date through November 2015 and November 2014 (Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	12,321	11,024	12.0%	0	0	11,412	10,407	909	617	0	0
Connecticut	521	487	7.1%	0	0	521	487	0	0	0	0
Maine	930	789	18.0%	0	0	930	789	0	0	0	0
Massachusetts	4,476	3,880	15.0%	0	0	4,476	3,880	0	0	0	0
New Hampshire	2,029	1,726	18.0%	0	0	1,120	1,109	909	617	0	0
Rhode Island	3,816	3,603	5.9%	0	0	3,816	3,603	0	0	0	0
Vermont	548	539	1.7%	0	0	548	539	0	0	0	0
Middle Atlantic	58,148	50,850	14.0%	0	0	56,077	48,998	611	537	1,459	1,315
New Jersey	10,861	9,029	20.0%	0	0	10,432	8,682	430	347	0	0
New York	18,958	15,784	20.0%	0	0	18,958	15,784	0	0	0	0
Pennsylvania	28,328	26,038	8.8%	0	0	26,688	24,531	181	191	1,459	1,315
East North Central	72,111	61,221	18.0%	8,182	6,420	63,033	53,850	223	295	673	657
Illinois	16,319	14,984	8.9%	0	0	16,319	14,984	0	0	0	0
Indiana	8,221	6,505	26.0%	7,853	6,146	174	184	0	0	194	174
Michigan	22,700	18,876	20.0%	0	0	22,700	18,876	0	0	0	0
Ohio	11,756	9,736	21.0%	161	127	11,595	9,609	0	0	0	0
Wisconsin	13,114	11,120	18.0%	167	147	12,244	10,196	223	295	480	482
West North Central	11,584	9,629	20.0%	3,413	2,690	8,170	6,939	0	0	0	0
Iowa	2,830	2,262	25.0%	0	0	2,830	2,262	0	0	0	0
Kansas	1,669	1,443	16.0%	0	0	1,669	1,443	0	0	0	0
Minnesota	4,037	3,350	20.0%	901	682	3,136	2,669	0	0	0	0
Missouri	1,636	1,465	12.0%	1,101	900	535	565	0	0	0	0
Nebraska	1,411	1,108	27.0%	1,411	1,108	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	50,518	45,835	10.0%	5,517	4,820	39,417	35,780	2,987	2,922	2,597	2,313
Delaware	1,812	1,581	15.0%	0	0	1,476	1,269	0	0	336	313
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	7,296	7,946	-8.2%	1,857	1,790	5,439	6,155	0	1	0	0
Georgia	4,484	3,935	14.0%	0	0	3,388	2,957	533	473	563	505
Maryland	2,906	2,762	5.2%	0	0	2,038	1,733	868	1,029	0	0
North Carolina	12,232	11,920	2.6%	0	0	10,908	10,750	1,323	1,170	0	0
South Carolina	5,669	4,773	19.0%	3,570	2,956	401	322	0	0	1,698	1,496
Virginia	15,997	12,806	25.0%	90	74	15,644	12,483	263	249	0	0
West Virginia	122	NM	NM	0	0	122	NM	0	0	0	0
East South Central	5,767	4,942	17.0%	2,351	2,050	3,416	2,892	0	0	0	0
Alabama	1,049	961	9.2%	0	0	1,049	961	0	0	0	0
Kentucky	2,489	2,165	15.0%	2,351	2,050	138	116	0	0	0	0
Mississippi	272	216	26.0%	0	0	272	216	0	0	0	0
Tennessee	1,957	1,600	22.0%	0	0	1,957	1,600	0	0	0	0
West South Central	17,632	15,350	15.0%	0	0	17,133	14,895	500	455	0	0
Arkansas	1,796	1,393	29.0%	0	0	1,796	1,393	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	421	339	24.0%	0	0	421	339	0	0	0	0
Texas	15,415	13,619	13.0%	0	0	14,915	13,164	500	455	0	0
Mountain	5,686	5,125	11.0%	936	773	4,750	4,259	0	93	0	0
Arizona	1,693	1,442	17.0%	711	589	982	853	0	0	0	0
Colorado	1,178	1,186	-0.8%	0	0	1,178	1,186	0	0	0	0
Idaho	651	715	-9.0%	225	185	426	437	0	93	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	582	479	22.0%	0	0	582	479	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	1,582	1,303	21.0%	0	0	1,582	1,303	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	61,715	58,627	5.3%	7,861	7,005	35,596	32,535	18,258	19,087	0	0
California	49,690	49,236	0.9%	2,365	2,956	29,601	27,665	17,724	18,615	0	0
Oregon	6,622	5,415	22.0%	1,459	1,187	4,629	3,757	534	471	0	0
Washington	5,404	3,976	36.0%	4,038	2,862	1,366	1,114	0	0	0	0
Pacific Noncontiguous	1,060	927	14.0%	0	0	0	0	1,060	927	0	0
Alaska	1,060	927	14.0%	0	0	0	0	1,060	927	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	296,543	263,531	13.0%	28,260	23,757	239,005	210,555	24,548	24,934	4,730	4,285

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.12.A. Consumption of Biogenic Municipal Solid Waste Gas for Electricity Generation by State, by Sector, November 2015 and November 2014 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	295	328	-10.0%	0	0	280	305	15	23	0	0
Connecticut	106	119	-11.0%	0	0	106	113	0	6	0	0
Maine	23	25	-7.2%	0	0	8	8	15	17	0	0
Massachusetts	157	174	-9.7%	0	0	157	174	0	0	0	0
New Hampshire	9	10	-11.0%	0	0	9	10	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	425	453	-6.2%	0	0	334	357	90	95	0	0
New Jersey	106	121	-12.0%	0	0	79	94	28	28	0	0
New York	160	169	-5.2%	0	0	122	125	38	44	0	0
Pennsylvania	158	162	-2.5%	0	0	134	138	24	24	0	0
East North Central	22	21	4.3%	3	3	0	0	19	19	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	1	1	-16.0%	0	0	0	0	1	1	0	0
Michigan	18	18	3.8%	0	0	0	0	18	18	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	3	3	14.0%	3	3	0	0	0	0	0	0
West North Central	48	49	-1.4%	31	29	15	19	NM	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	48	49	-1.4%	31	29	15	19	NM	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	423	418	1.0%	36	0	355	385	33	33	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	265	268	-1.3%	36	0	229	268	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	69	66	4.9%	0	0	69	66	NM	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	89	85	5.5%	0	0	57	51	32	33	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	1	0	110.0%	0	0	0	0	0	0	1	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	1	0	110.0%	0	0	0	0	0	0	1	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	NM	0	NM	0	0	NM	0	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	NM	0	NM	0	0	NM	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	58	72	-19.0%	0	0	58	72	0	0	0	0
California	39	48	-18.0%	0	0	39	48	0	0	0	0
Oregon	7	11	-31.0%	0	0	7	11	0	0	0	0
Washington	12	14	-15.0%	0	0	12	14	0	0	0	0
Pacific Noncontiguous	35	31	11.0%	0	0	0	0	35	31	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	35	31	11.0%	0	0	0	0	35	31	0	0
U.S. Total	1,307	1,373	-4.8%	70	32	1,042	1,139	194	201	1	0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 2.12.B. Consumption of Biogenic Municipal Solid Waste Gas for Electricity Generation by State, by Sector, Year-to-Date through November 2015 and November 2014 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	3,212	3,612	-11.0%	0	0	3,037	3,360	175	253	0	0
Connecticut	1,106	1,320	-16.0%	0	0	1,085	1,249	22	70	0	0
Maine	237	284	-17.0%	0	0	83	102	154	182	0	0
Massachusetts	1,772	1,895	-6.4%	0	0	1,772	1,895	0	0	0	0
New Hampshire	96	114	-16.0%	0	0	96	114	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	4,588	4,840	-5.2%	0	0	3,649	3,812	938	1,027	0	0
New Jersey	1,160	1,279	-9.3%	0	0	844	968	316	311	0	0
New York	1,708	1,827	-6.5%	0	0	1,328	1,357	380	470	0	0
Pennsylvania	1,720	1,733	-0.8%	0	0	1,477	1,487	243	246	0	0
East North Central	229	231	-0.7%	36	30	0	0	193	201	0	0
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	9	11	-23.0%	0	0	0	0	9	11	0	0
Michigan	184	190	-2.9%	0	0	0	0	184	190	0	0
Ohio	0	0	--	0	0	0	0	0	0	0	0
Wisconsin	36	30	21.0%	36	30	0	0	0	0	0	0
West North Central	564	604	-6.7%	379	379	169	204	15	22	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	564	604	-6.7%	379	379	169	204	15	22	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	4,641	4,904	-5.4%	262	0	4,042	4,521	337	383	0	0
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	3,032	3,188	-4.9%	262	0	2,770	3,188	0	0	0	0
Georgia	0	0	--	0	0	0	0	0	0	0	0
Maryland	738	737	0.2%	0	0	738	737	NM	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	871	979	-11.0%	0	0	534	596	337	383	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	0	0	--	0	0	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	0	0	--	0	0	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	4	5	-28.0%	0	0	0	0	0	0	4	5
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	0	0	--	0	0	0	0	0	0	0	0
Oklahoma	4	5	-28.0%	0	0	0	0	0	0	4	5
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	2	2	-14.0%	0	0	2	2	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	2	2	-14.0%	0	0	2	2	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	645	755	-15.0%	0	0	645	755	0	0	0	0
California	436	492	-11.0%	0	0	436	492	0	0	0	0
Oregon	80	108	-26.0%	0	0	80	108	0	0	0	0
Washington	129	155	-17.0%	0	0	129	155	0	0	0	0
Pacific Noncontiguous	350	356	-1.6%	0	0	0	0	350	356	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	350	356	-1.6%	0	0	0	0	350	356	0	0
U.S. Total	14,235	15,309	-7.0%	678	408	11,545	12,654	2,009	2,242	4	5

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 3.1. Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, 2005 - November 2015

	Electric Power Sector			Electric Utilities			Independent Power Producers		
Period	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)	Coal (Thousand Tons)	Petroleum Liquids (Thousand Barrels)	Petroleum Coke (Thousand Tons)
End of Year Stocks									
2005	101,137	47,414	530	77,457	29,532	374	23,680	17,882	156
2006	140,964	48,216	674	110,277	29,799	456	30,688	18,416	217
2007	151,221	44,433	554	120,504	28,032	253	30,717	16,401	301
2008	161,589	40,804	739	127,463	26,108	468	34,126	14,696	270
2009	189,467	39,210	1,394	154,815	25,811	1,194	34,652	13,399	201
2010	174,917	35,706	1,019	143,744	24,798	850	31,173	10,908	168
2011	172,387	34,847	508	142,103	25,648	404	30,284	9,198	104
2012	185,116	32,224	495	150,942	23,875	414	34,174	8,349	81
2013	147,884	31,673	390	120,792	22,494	303	27,092	9,179	86
2014	151,548	33,505	827	116,684	22,487	686	34,864	11,018	142
Year 2013, End of Month Stocks									
January	178,859	31,314	442	145,550	23,442	358	33,309	7,872	84
February	175,565	31,205	442	144,081	23,182	362	31,484	8,023	81
March	171,736	32,199	407	141,891	23,917	323	29,845	8,281	84
April	173,014	31,569	456	143,082	23,399	387	29,933	8,169	69
May	177,174	31,494	443	144,824	23,305	348	32,350	8,189	96
June	171,124	31,313	408	139,705	23,148	303	31,418	8,165	105
July	160,019	30,804	394	131,967	22,770	279	28,053	8,034	115
August	154,567	31,436	260	127,153	23,070	183	27,414	8,366	77
Sept	152,694	31,428	309	125,579	22,618	191	27,115	8,811	118
October	154,194	31,771	291	125,616	22,696	214	28,578	9,075	77
November	156,249	32,620	338	126,611	22,827	250	29,638	9,793	88
December	147,884	31,673	390	120,792	22,494	303	27,092	9,179	86
Year 2014, End of Month Stocks									
January	133,705	27,553	298	108,249	20,649	216	25,456	6,904	83
February	119,904	29,158	277	97,363	20,964	202	22,541	8,195	74
March	118,260	29,197	350	96,029	21,341	282	22,231	7,855	67
April	128,925	29,568	515	103,431	21,583	451	25,494	7,985	64
May	136,921	29,376	458	108,064	21,446	374	28,856	7,930	84
June	133,479	29,738	397	103,948	21,568	343	29,531	8,170	54
July	125,870	29,120	381	97,829	20,967	300	28,041	8,152	81
August	121,369	29,346	388	93,552	21,205	289	27,817	8,141	99
Sept	124,546	29,789	389	96,266	21,338	297	28,280	8,451	92
October	136,964	30,883	510	105,094	21,741	394	31,870	9,142	117
November	142,595	32,829	633	110,221	22,103	502	32,374	10,726	131
December	151,548	33,505	827	116,684	22,487	686	34,864	11,018	142
Year 2015, End of Month Stocks									
January	154,691	32,637	892	119,780	22,000	742	34,911	10,636	150
February	149,671	28,198	850	116,902	19,955	723	32,769	8,243	127
March	154,841	29,066	818	122,153	20,679	698	32,687	8,387	120
April	167,490	28,970	912	131,479	20,608	776	36,010	8,362	136
May	173,214	29,352	999	135,670	20,749	856	37,544	8,603	143
June	166,810	29,396	1,031	131,853	20,694	883	34,957	8,702	149
July	158,330	29,022	1,065	125,614	20,395	909	32,716	8,627	156
August	156,277	28,915	1,029	124,558	20,081	891	31,719	8,834	138
Sept	162,373	29,956	1,102	129,629	20,249	973	32,743	9,707	129
October	175,826	30,915	1,151	140,089	20,270	1,026	35,737	10,645	125
November	188,538	31,838	1,290	150,267	20,620	1,159	38,272	11,218	131

Notes: See Glossary for definitions. Values for 2014 and prior years are final. Values for 2015 are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms. Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms.
Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following: Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report; Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 3.2 Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, by State, November 2015 and 2014

Census Division and State	Coal (Thousand Tons)			Petroleum Liquids (Thousand Barrels)			Petroleum Coke (Thousand Tons)		
	November 2015	November 2014	Percentage Change	November 2015	November 2014	Percentage Change	November 2015	November 2014	Percentage Change
New England	1,687	W	W	4,860	4,770	1.9%	0	0	--
Connecticut	W	W	W	1,650	1,465	12.6%	0	0	--
Maine	0	0	--	W	W	W	0	0	--
Massachusetts	W	W	W	1,923	2,029	-5.3%	0	0	--
New Hampshire	W	W	W	W	W	W	0	0	--
Rhode Island	0	W	W	W	W	W	0	0	--
Vermont	0	0	--	47	57	-17.5%	0	0	--
Middle Atlantic	7,927	7,650	3.6%	5,644	5,261	7.3%	W	W	W
New Jersey	954	861	10.7%	765	761	0.6%	0	0	--
New York	514	872	-41.1%	3,538	3,379	4.7%	0	0	--
Pennsylvania	6,460	5,918	9.2%	1,341	1,122	19.5%	W	W	W
East North Central	41,136	31,543	30.4%	1,110	1,219	-9.0%	136	155	-12.3%
Illinois	9,671	7,061	37.0%	76	112	-31.6%	0	0	--
Indiana	11,011	8,585	28.3%	108	212	-48.8%	0	W	W
Michigan	8,127	6,171	31.7%	327	344	-5.2%	W	W	W
Ohio	7,333	5,973	22.8%	361	311	16.0%	W	W	W
Wisconsin	4,994	3,753	33.0%	238	241	-1.3%	W	W	W
West North Central	30,327	20,147	50.5%	1,643	1,670	-1.6%	0	0	--
Iowa	6,702	4,299	55.9%	155	187	-16.9%	0	0	--
Kansas	4,523	2,916	55.1%	664	576	15.3%	0	0	--
Minnesota	5,076	W	W	139	157	-11.6%	0	0	--
Missouri	9,147	5,938	54.0%	411	412	-0.2%	0	0	--
Nebraska	2,944	2,897	1.6%	188	236	-20.0%	0	0	--
North Dakota	W	1,780	W	36	33	8.8%	0	0	--
South Dakota	W	W	W	49	70	-30.0%	0	0	--
South Atlantic	33,772	28,387	19.0%	11,767	12,268	-4.1%	W	W	W
Delaware	W	W	W	454	287	58.5%	0	0	--
District of Columbia	0	0	--	0	0	--	0	0	--
Florida	6,355	4,849	31.1%	5,334	5,918	-9.9%	181	W	W
Georgia	6,118	5,295	15.5%	847	917	-7.6%	0	0	--
Maryland	1,897	1,758	7.9%	906	814	11.3%	0	0	--
North Carolina	7,185	5,623	27.8%	1,207	1,225	-1.5%	0	0	--
South Carolina	5,525	4,010	37.8%	694	694	0.0%	0	0	--
Virginia	1,805	W	W	2,186	2,256	-3.1%	0	0	--
West Virginia	W	4,892	W	139	158	-11.6%	W	W	W
East South Central	18,728	16,746	11.8%	1,930	1,847	4.5%	W	W	W
Alabama	4,159	3,746	11.0%	390	259	50.4%	0	0	--
Kentucky	9,022	8,121	11.1%	250	260	-3.8%	W	W	W
Mississippi	1,636	1,564	4.6%	574	587	-2.2%	0	0	--
Tennessee	3,912	3,316	18.0%	716	741	-3.4%	0	0	--
West South Central	31,670	19,741	60.4%	1,911	2,054	-7.0%	W	W	W
Arkansas	4,836	2,626	84.1%	W	W	W	0	0	--
Louisiana	3,502	3,381	3.6%	423	521	-18.8%	W	W	W
Oklahoma	5,023	2,587	94.2%	W	W	W	0	0	--
Texas	18,308	11,147	64.2%	1,184	1,245	-4.9%	0	0	--
Mountain	21,631	15,495	39.6%	389	867	-55.1%	W	W	W
Arizona	4,928	2,608	89.0%	132	157	-16.3%	0	0	--
Colorado	5,807	3,341	73.8%	119	249	-52.1%	0	0	--
Idaho	0	0	--	W	W	W	0	0	--
Montana	W	W	W	W	W	W	W	W	W
Nevada	1,089	1,057	3.0%	W	177	W	0	0	--
New Mexico	W	W	W	40	W	W	0	0	--
Utah	4,072	3,425	18.9%	41	39	5.7%	0	0	--
Wyoming	3,568	3,104	15.0%	33	34	-5.4%	0	0	--
Pacific Contiguous	W	W	W	335	340	-1.7%	0	W	W
California	0	W	W	W	167	W	0	W	W
Oregon	W	W	W	W	W	W	0	0	--
Washington	W	W	W	100	W	W	0	0	--
Pacific Noncontiguous	W	213	W	2,250	2,531	-11.1%	0	0	--
Alaska	W	W	W	45	286	-84.3%	0	0	--
Hawaii	W	W	W	2,205	2,245	-1.8%	0	0	--
U.S. Total	188,538	142,595	32.2%	31,838	32,829	-3.0%	1,290	633	103.8%

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

NM = Not meaningful due to large relative standard error or excessive percentage change.

Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Negative generation denotes that electric power consumed for plant use exceeds gross generation.

Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 3.3 Stocks of Coal, Petroleum Liquids, and Petroleum Coke: Electric Power Sector, by Census Divison, November 2015 and 2014

	Electric Power Sector			Electric Utilities		Independent Power Producers	
Census Division	**November 2015**	**November 2014**	**Percentage Change**	**November 2015**	**November 2014**	**November 2015**	**November 2014**
Coal (Thousand Tons)							
New England	1,687	W	W	W	W	W	W
Middle Atlantic	7,927	7,650	3.6%	0	W	7,927	W
East North Central	41,136	31,543	30.4%	28,311	21,620	12,824	9,923
West North Central	30,327	20,147	50.5%	30,327	W	0	W
South Atlantic	33,772	28,387	19.0%	30,841	25,168	2,931	3,219
East South Central	18,728	16,746	11.8%	18,728	W	0	W
West South Central	31,670	19,741	60.4%	19,988	11,218	11,681	8,524
Mountain	21,631	15,495	39.6%	20,507	14,335	1,124	1,160
Pacific Contiguous	W	W	W	W	W	W	W
Pacific Noncontiguous	W	213	W	W	W	W	W
U.S. Total	**188,538**	**142,595**	**32.2%**	**150,267**	**110,221**	**38,272**	**32,374**
Petroleum Liquids (Thousand Barrels)							
New England	4,860	4,770	1.9%	679	820	4,181	3,950
Middle Atlantic	5,644	5,261	7.3%	2,130	1,656	3,514	3,606
East North Central	1,110	1,219	-9.0%	823	936	287	284
West North Central	1,643	1,670	-1.6%	1,618	1,642	25	28
South Atlantic	11,767	12,268	-4.1%	9,395	10,154	2,372	2,114
East South Central	1,930	1,847	4.5%	W	W	W	W
West South Central	1,911	2,054	-7.0%	1,425	1,501	486	553
Mountain	389	867	-55.1%	W	W	W	W
Pacific Contiguous	335	340	-1.7%	234	W	101	W
Pacific Noncontiguous	2,250	2,531	-11.1%	W	W	W	W
U.S. Total	**31,838**	**32,829**	**-3.0%**	**20,620**	**22,103**	**11,218**	**10,726**
Petroleum Coke (Thousand Tons)							
New England	0	0	--	0	0	0	0
Middle Atlantic	W	W	W	0	0	W	W
East North Central	136	155	-12.3%	W	W	W	W
West North Central	0	0	--	0	0	0	0
South Atlantic	W	W	W	181	W	W	W
East South Central	W	W	W	W	W	0	0
West South Central	W	W	W	W	W	0	0
Mountain	W	W	W	0	0	W	W
Pacific Contiguous	0	W	W	0	0	0	W
Pacific Noncontiguous	0	0	--	0	0	0	0
U.S. Total	**1,290**	**633**	**103.8%**	**W**	**W**	**W**	**W**

W = Withheld to avoid disclosure of individual company data.
Notes: See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.
Source: U.S. Energy Information Administration, Form-923, 'Power Plant Operations Report.'

Table 3.4. Stocks of Coal by Coal Rank: Electric Power Sector, 2005 - November 2015

	Electric Power Sector			
Period	**Bituminous Coal**	**Subbituminous Coal**	**Lignite Coal**	**Total**
End of Year Stocks				
2005	52,923	44,377	3,836	101,137
2006	67,760	68,408	4,797	140,964
2007	63,964	82,692	4,565	151,221
2008	65,818	91,214	4,556	161,589
2009	91,922	92,448	5,097	189,467
2010	81,108	86,915	6,894	174,917
2011	82,056	85,151	5,179	172,387
2012	86,437	93,833	4,846	185,116
2013	73,113	69,720	5,051	147,884
2014	72,771	72,552	6,225	151,548
Year 2013, End of Month Stocks				
January	83,501	90,693	4,664	178,859
February	81,835	89,227	4,504	175,565
March	80,528	86,416	4,792	171,736
April	82,756	85,182	5,076	173,014
May	84,487	86,439	6,248	177,174
June	82,016	82,922	6,186	171,124
July	75,887	78,372	5,760	160,019
August	73,002	75,970	5,595	154,567
Sept	72,121	75,001	5,571	152,694
October	74,079	74,620	5,496	154,194
November	75,232	75,683	5,334	156,249
December	73,113	69,720	5,051	147,884
Year 2014, End of Month Stocks				
January	63,618	64,709	5,378	133,705
February	56,041	58,418	5,445	119,904
March	55,150	57,657	5,453	118,260
April	60,602	62,266	6,056	128,925
May	63,782	66,827	6,311	136,921
June	62,679	64,378	6,423	133,479
July	60,134	59,514	6,222	125,870
August	60,128	54,787	6,453	121,369
Sept	63,031	55,432	6,082	124,546
October	69,246	61,368	6,350	136,964
November	70,666	66,105	5,824	142,595
December	72,771	72,552	6,225	151,548
Year 2015, End of Month Stocks				
January	70,461	78,677	5,552	154,691
February	64,613	79,761	5,296	149,671
March	65,597	84,300	4,944	154,841
April	71,044	91,251	5,195	167,490
May	74,266	93,842	5,107	173,214
June	72,967	89,125	4,718	166,810
July	68,318	85,227	4,785	158,330
August	67,819	83,938	4,520	156,277
Sept	70,397	87,401	4,575	162,373
October	76,242	94,951	4,632	175,826
November	80,143	103,671	4,724	188,538

Notes: See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923. and predecessor forms. Totals may not equal sum of components because of independent rounding.
Sources: U.S. Energy Information Administration, Form EIA-906, Power Plant Report; U.S. Energy Information Administration, Form EIA-920 Combined Heat and Power Plant Report, and predecessor forms. Beginning with 2008 data, the Form EIA-923, Power Plant Operations Report, replaced the following:
Form EIA-906, Power Plant Report; Form EIA-920, Combined Heat and Power Plant Report; Form EIA-423, Monthly Cost and Quality of Fuels for Electric Plants Report; and Federal Energy Regulatory Commission, FERC Form 423, Monthly Report of Cost and Quality of Fuels for Electric Plants.

Table 4.1. Receipts, Average Cost, and Quality of Fossil Fuels: Total (All Sectors), 2005 - November 2015

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2005	20,647,307	1,021,437	1.54	31.20	0.98	95.9	986,258	157,221	7.59	47.61	0.77	84.7
2006	21,735,101	1,079,943	1.69	34.09	0.97	102.5	406,869	65,002	8.68	54.35	0.73	74.0
2007	21,152,358	1,054,664	1.77	35.48	0.96	98.6	375,260	60,068	9.59	59.93	0.71	62.6
2008	21,280,258	1,069,709	2.07	41.14	0.97	100.5	375,684	61,139	15.52	95.38	0.61	99.6
2009	19,437,966	981,477	2.21	43.74	1.01	102.8	330,043	54,181	10.25	62.47	0.54	104.8
2010	19,289,661	979,918	2.27	44.64	1.16	97.9	275,058	45,472	14.02	84.80	0.51	101.1
2011	18,675,843	956,538	2.39	46.65	1.19	100.0	216,752	36,158	19.94	119.54	0.60	116.1
2012	16,265,578	841,183	2.38	46.09	1.25	99.5	116,937	19,464	21.85	131.28	0.51	75.7
2013	15,906,809	823,222	2.34	45.33	1.29	93.7	123,964	20,413	20.56	124.90	0.46	76.5
2014	16,594,722	854,560	2.37	45.96	1.32	98.0	172,421	28,514	19.87	120.26	0.46	82.3
Year 2013												
January	1,342,301	69,783	2.34	45.09	1.27	90.9	10,766	1,787	21.00	126.64	0.50	52.0
February	1,229,209	63,662	2.34	45.28	1.34	92.7	10,780	1,756	21.02	129.19	0.46	79.8
March	1,291,446	66,546	2.35	45.68	1.34	92.3	14,263	2,321	20.15	123.86	0.46	123.8
April	1,229,373	62,822	2.37	46.51	1.36	100.9	6,131	1,025	21.53	128.84	0.52	53.1
May	1,328,111	68,190	2.37	46.23	1.31	103.1	8,658	1,428	20.70	125.53	0.50	70.1
June	1,319,801	68,294	2.36	45.62	1.26	89.3	7,007	1,170	20.96	125.57	0.50	60.6
July	1,392,487	72,998	2.31	44.14	1.19	86.1	10,748	1,782	20.51	123.69	0.48	64.4
August	1,465,659	76,277	2.33	44.76	1.26	91.4	11,993	1,962	19.70	120.41	0.44	98.8
Sept	1,359,392	70,489	2.35	45.29	1.29	95.1	9,904	1,630	20.17	122.66	0.38	90.9
October	1,318,098	67,874	2.34	45.49	1.33	100.1	10,145	1,675	20.86	126.37	0.43	92.5
November	1,311,392	67,740	2.33	45.11	1.29	100.3	12,818	2,105	20.10	122.51	0.46	111.3
December	1,319,540	68,548	2.34	45.06	1.29	86.8	10,751	1,775	20.95	126.83	0.45	58.5
Year 2014												
January	1,319,894	69,313	2.29	43.69	1.25	81.1	27,209	4,554	21.85	130.73	0.43	42.0
February	1,217,895	62,838	2.32	45.04	1.34	80.8	26,164	4,306	21.60	131.42	0.45	124.7
March	1,400,614	71,444	2.36	46.35	1.35	96.8	15,224	2,519	21.94	132.68	0.45	66.7
April	1,339,967	68,102	2.39	46.96	1.33	114.5	8,983	1,487	21.71	131.18	0.42	84.5
May	1,383,924	70,623	2.40	46.93	1.37	107.9	8,655	1,437	21.18	127.58	0.46	77.4
June	1,366,947	70,055	2.38	46.50	1.35	92.5	9,334	1,546	21.41	129.29	0.45	90.4
July	1,431,182	73,973	2.38	45.96	1.27	89.2	8,455	1,399	21.29	128.62	0.50	74.0
August	1,488,018	76,671	2.37	45.95	1.32	92.9	9,182	1,509	20.62	125.46	0.52	77.3
Sept	1,403,234	72,158	2.37	46.16	1.33	102.4	10,222	1,686	19.67	119.51	0.51	92.8
October	1,416,761	72,959	2.31	44.84	1.29	116.8	12,851	2,134	18.49	111.46	0.48	121.4
November	1,372,572	71,000	2.30	44.54	1.29	107.4	17,787	2,959	16.53	99.41	0.43	155.7
December	1,453,713	75,424	2.51	48.34	1.29	108.7	18,356	2,977	13.87	85.54	0.49	155.0
Year 2015												
January	1,398,063	72,404	2.29	44.17	1.29	99.2	13,263	2,192	12.75	77.17	0.57	59.5
February	1,157,768	60,083	2.26	43.53	1.30	87.7	20,151	3,312	12.59	76.71	0.51	35.8
March	1,218,280	62,520	2.26	44.02	1.29	104.4	15,791	2,608	W	W	0.70	125.9
April	1,165,784	60,030	2.25	43.68	1.33	120.3	9,163	1,522	13.18	79.55	0.43	86.6
May	1,209,860	61,852	2.26	44.25	1.35	105.5	11,087	1,828	12.56	76.29	0.45	93.5
June	1,182,487	60,862	2.25	43.72	1.37	86.2	9,805	1,620	13.56	82.07	0.49	81.6
July	1,289,026	67,407	2.21	42.29	1.25	86.0	8,779	1,450	12.58	76.24	0.48	64.1
August	1,375,086	70,997	2.23	43.22	1.31	94.0	9,196	1,538	12.05	72.78	0.47	74.6
Sept	1,340,736	69,472	2.22	42.78	1.31	104.5	14,405	2,364	9.69	59.04	0.49	120.7
October	1,266,451	65,867	2.14	41.22	1.27	119.2	13,167	2,154	9.18	56.12	0.44	121.4
November	1,167,404	60,857	2.15	41.33	1.25	119.5	14,110	2,300	8.95	54.94	0.53	115.6
Year to Date												
2013	14,587,270	754,674	2.34	45.36	1.29	94.3	113,213	18,639	20.53	124.72	0.46	78.8
2014	15,141,009	779,135	2.35	45.73	1.32	97.1	154,066	25,537	20.60	124.39	0.46	78.1
2015	13,770,946	712,351	2.23	43.11	1.30	100.7	138,918	22,888	11.67	70.96	0.51	74.4
Rolling 12 Months Ending in November												
2014	16,460,549	847,683	2.35	45.67	1.31	96.2	164,817	27,311	20.62	124.55	0.46	76.4
2015	15,224,659	787,775	2.26	43.61	1.30	101.5	157,274	25,865	W	W	0.51	79.2

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
See the Technical Notes for fuel conversion factors.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor form(s) including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants"

Table 4.1. Receipts, Average Cost, and Quality of Fossil Fuels: Total (All Sectors), 2005 - November 2015 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2005	211,776	7,502	1.11	31.35	5.15	82.3	6,356,868	6,181,717	8.21	8.44	88.1	3.25
2006	203,270	7,193	1.33	37.46	5.15	83.4	6,855,680	6,675,246	6.94	7.13	90.2	3.02
2007	161,091	5,656	1.51	43.02	5.07	77.5	7,396,233	7,200,316	7.11	7.30	90.4	3.23
2008	199,724	7,040	2.11	59.72	4.98	111.5	8,089,467	7,879,046	9.01	9.26	102.5	4.12
2009	197,921	6,954	1.61	45.89	4.63	119.3	8,319,329	8,118,550	4.74	4.86	102.3	3.04
2010	169,508	5,963	2.28	64.85	4.79	98.5	8,867,396	8,673,070	5.09	5.20	102.0	3.26
2011	171,100	5,980	3.03	86.78	5.01	98.2	9,250,652	9,056,164	4.72	4.83	103.8	3.29
2012	119,667	4,180	2.24	64.14	5.55	83.3	9,746,691	9,531,389	3.42	3.50	91.9	2.83
2013	132,474	4,660	2.18	61.95	5.41	73.5	8,721,114	8,503,424	4.33	4.44	89.7	3.09
2014	147,310	5,195	1.98	56.23	5.56	91.2	8,679,286	8,431,423	5.00	5.14	89.6	3.31
Year 2013												
January	10,103	355	2.04	58.21	5.61	68.1	676,695	660,645	4.38	4.49	89.1	3.08
February	9,754	343	2.09	59.50	5.40	82.5	607,094	592,786	4.39	4.50	88.9	3.09
March	8,239	290	2.08	59.25	5.47	58.8	649,452	633,519	4.30	4.40	89.2	3.09
April	11,240	396	2.28	64.98	5.35	86.8	609,479	594,620	4.67	4.79	89.3	3.15
May	11,758	412	2.34	66.64	5.37	68.8	665,433	648,152	4.62	4.75	90.4	3.15
June	11,528	407	2.42	68.49	5.07	67.1	782,722	762,845	4.42	4.54	90.6	3.14
July	12,215	428	2.29	65.47	5.44	69.6	949,493	924,645	4.20	4.31	90.0	3.11
August	10,902	381	2.25	64.57	5.38	58.3	940,629	917,829	3.91	4.00	90.4	2.99
Sept	12,370	433	2.17	61.88	5.36	77.7	794,084	774,415	4.08	4.18	90.3	3.02
October	12,201	432	2.13	60.26	5.37	82.8	683,580	666,361	4.11	4.21	89.8	2.99
November	9,653	339	1.91	54.26	5.43	84.7	647,943	631,751	4.19	4.30	89.3	3.01
December	12,511	444	2.02	57.05	5.66	89.4	714,509	695,857	4.91	5.04	88.7	3.26
Year 2014												
January	10,073	357	1.82	51.28	5.26	66.1	708,775	691,024	7.02	7.20	88.4	4.07
February	10,261	363	W	W	5.47	79.9	588,885	573,618	7.40	7.59	88.4	W
March	13,196	468	2.02	57.09	5.81	88.8	607,103	591,486	6.00	6.16	89.1	3.52
April	12,986	459	2.13	60.37	5.94	109.7	594,114	578,726	5.07	5.20	89.5	3.23
May	12,640	448	2.19	61.62	5.55	89.0	690,306	671,336	4.93	5.07	89.7	3.25
June	11,659	409	2.07	59.14	5.77	77.7	760,055	738,843	4.84	4.98	89.9	3.27
July	11,616	407	1.90	54.16	5.69	81.6	887,618	861,696	4.43	4.57	90.4	3.17
August	12,764	448	1.97	56.12	5.52	90.8	945,250	916,932	4.12	4.24	90.8	3.06
Sept	11,787	414	1.92	54.55	5.43	85.5	813,131	788,357	4.20	4.33	90.0	3.06
October	11,011	390	1.79	50.65	5.31	123.3	745,276	722,544	4.10	4.23	89.5	2.96
November	12,217	431	1.86	52.74	5.45	109.7	648,562	628,693	4.48	4.62	89.3	3.06
December	17,100	600	2.00	57.09	5.41	111.5	690,212	668,170	4.36	4.50	89.3	3.14
Year 2015												
January	13,724	484	2.03	57.48	5.23	89.7	758,731	735,038	4.10	4.23	88.8	2.93
February	9,660	338	1.79	51.07	5.30	60.9	691,450	669,640	4.67	4.83	89.2	3.20
March	9,506	338	2.03	57.09	5.17	79.5	753,516	729,499	3.54	3.66	89.2	W
April	11,059	392	1.99	56.16	5.01	93.3	716,775	693,083	3.09	3.20	90.2	2.59
May	11,883	419	2.05	58.07	5.24	94.4	786,897	760,840	3.14	3.24	90.1	2.64
June	9,380	330	1.89	53.88	5.57	78.2	933,405	901,594	3.11	3.22	90.2	2.65
July	12,797	451	1.93	54.69	5.08	85.9	1,091,608	1,054,927	3.11	3.22	90.7	2.63
August	11,327	396	1.85	52.86	5.02	79.0	1,064,645	1,029,862	3.10	3.21	90.1	2.62
Sept	13,033	458	1.76	50.19	5.13	93.7	941,441	909,925	3.06	3.16	90.1	2.58
October	10,862	381	W	W	5.09	96.1	830,909	802,190	2.91	3.01	88.9	W
November	11,877	419	1.61	45.65	5.61	111.1	775,206	750,192	2.63	2.72	89.0	2.38
Year to Date												
2013	119,963	4,217	2.19	62.47	5.38	72.2	8,006,605	7,807,568	4.28	4.39	89.8	3.07
2014	130,210	4,595	1.98	56.11	5.58	89.1	7,989,074	7,763,254	5.05	5.20	89.6	3.32
2015	125,109	4,405	1.89	53.65	5.22	86.5	9,344,583	9,036,790	3.28	3.39	89.7	2.67
Rolling 12 Months Ending in November												
2014	142,721	5,038	W	W	5.58	89.1	8,703,583	8,459,110	5.03	5.17	89.6	W
2015	142,208	5,005	W	W	5.24	88.9	10,034,794	9,704,960	3.35	3.47	89.7	W

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor form(s) including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants"

Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2005 - November 2015

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2005	15,836,924	775,890	1.53	31.22	0.94	101.9	566,320	89,303	7.17	45.46	0.89	90.9
2006	16,197,852	797,361	1.69	34.26	0.92	105.8	269,033	42,415	8.33	52.80	0.82	79.2
2007	15,561,395	767,377	1.78	36.06	0.92	100.3	216,349	34,026	9.24	58.73	0.77	59.8
2008	15,347,396	764,399	2.06	41.32	0.93	100.5	240,937	38,891	15.83	98.09	0.60	99.7
2009	14,402,019	719,253	2.22	44.47	0.99	103.4	202,598	32,959	10.44	64.18	0.51	103.5
2010	14,226,995	713,094	2.27	45.33	1.14	98.8	189,790	31,099	13.94	85.07	0.48	101.0
2011	13,871,559	699,353	2.40	47.67	1.16	101.5	144,255	23,859	20.30	122.72	0.53	114.5
2012	11,939,543	609,445	2.43	47.51	1.18	99.0	86,030	14,252	22.11	133.44	0.41	81.3
2013	11,595,328	592,772	2.38	46.51	1.23	92.9	78,101	12,814	21.09	128.57	0.43	76.2
2014	12,064,810	614,728	2.39	46.95	1.21	98.3	98,357	16,161	19.90	121.14	0.44	82.0
Year 2013												
January	966,431	49,719	2.37	46.15	1.18	89.3	7,473	1,239	21.08	127.15	0.41	68.5
February	899,054	45,989	2.38	46.62	1.26	93.8	6,220	1,009	21.34	131.57	0.40	78.9
March	948,352	48,339	2.37	46.58	1.27	92.9	9,929	1,608	20.43	126.13	0.45	120.6
April	904,409	45,784	2.41	47.65	1.28	100.5	3,831	638	21.99	131.94	0.45	47.8
May	958,782	48,775	2.40	47.27	1.23	100.9	6,010	987	20.90	127.33	0.47	69.5
June	965,951	49,292	2.39	46.90	1.21	88.0	4,713	786	21.31	127.71	0.43	59.5
July	1,031,429	53,206	2.34	45.37	1.16	86.7	7,153	1,184	20.82	125.77	0.44	68.4
August	1,071,201	54,959	2.37	46.16	1.21	89.5	8,382	1,353	19.78	122.55	0.45	96.5
Sept	974,613	49,808	2.38	46.62	1.22	93.8	4,882	795	21.67	132.98	0.34	68.0
October	956,973	48,754	2.37	46.45	1.27	98.7	6,139	1,011	21.98	133.43	0.40	81.1
November	958,575	49,043	2.36	46.21	1.22	98.8	6,313	1,037	21.61	131.57	0.41	79.5
December	959,557	49,103	2.37	46.32	1.23	86.5	7,055	1,166	21.58	130.56	0.43	79.2
Year 2014												
January	939,850	48,843	2.30	44.18	1.13	79.8	12,001	2,011	21.72	129.64	0.32	44.6
February	870,977	44,490	2.31	45.27	1.23	80.6	12,180	2,005	21.72	131.94	0.49	106.4
March	991,708	50,353	2.37	46.61	1.23	97.5	8,992	1,474	21.53	131.41	0.39	76.6
April	948,645	47,838	2.41	47.72	1.23	116.0	6,691	1,099	21.74	132.35	0.36	85.6
May	1,003,354	50,694	2.42	47.83	1.27	107.4	5,313	885	21.88	131.42	0.34	68.2
June	998,236	50,508	2.40	47.48	1.25	90.8	6,271	1,037	21.65	130.91	0.34	87.9
July	1,059,989	53,961	2.41	47.22	1.19	89.5	5,979	985	21.28	129.22	0.47	75.2
August	1,096,270	55,759	2.40	47.18	1.22	92.5	6,800	1,108	20.61	126.44	0.50	84.5
Sept	1,037,230	52,716	2.41	47.40	1.21	103.8	6,921	1,137	19.90	121.13	0.48	87.7
October	1,047,018	53,419	2.34	45.74	1.20	118.6	6,939	1,148	19.33	117.03	0.48	94.2
November	1,010,559	51,705	2.33	45.51	1.20	110.9	7,512	1,237	17.71	107.56	0.50	100.6
December	1,060,973	54,441	2.60	50.75	1.20	108.8	12,760	2,035	13.22	82.91	0.46	160.4
Year 2015												
January	1,036,958	53,439	2.30	44.72	1.20	103.4	8,894	1,464	11.82	71.84	0.57	69.5
February	864,004	44,588	2.26	43.72	1.20	91.5	8,602	1,406	11.71	71.65	0.47	38.0
March	927,718	47,541	2.26	44.03	1.20	110.2	10,202	1,675	12.14	73.96	0.52	132.3
April	879,765	45,153	2.28	44.37	1.22	122.4	6,623	1,090	13.28	80.65	0.39	87.1
May	923,978	47,039	2.29	44.95	1.23	107.8	7,248	1,180	12.33	75.72	0.46	92.4
June	904,761	46,194	2.26	44.37	1.25	89.8	7,510	1,236	13.65	82.94	0.46	87.6
July	976,318	50,655	2.23	43.06	1.13	88.6	6,306	1,033	12.49	76.20	0.40	67.0
August	1,035,250	53,057	2.26	44.06	1.20	96.6	5,704	942	11.73	71.05	0.42	64.7
Sept	1,005,257	51,539	2.26	44.05	1.20	108.0	7,091	1,156	9.74	59.71	0.38	91.2
October	951,213	49,116	2.18	42.32	1.16	123.3	5,918	971	9.54	58.17	0.44	78.5
November	881,351	45,650	2.20	42.49	1.14	125.1	8,585	1,391	8.81	54.40	0.57	99.8
Year to Date												
2013	10,635,772	543,669	2.38	46.52	1.23	93.5	71,046	11,648	21.05	128.37	0.43	75.9
2014	11,003,837	560,287	2.37	46.58	1.21	97.4	85,597	14,126	20.90	126.68	0.43	76.6
2015	10,386,572	533,972	2.25	43.84	1.19	104.4	82,682	13,545	11.57	70.63	0.47	75.6
Rolling 12 Months Ending in November												
2014	11,963,393	609,390	2.37	46.56	1.22	96.4	92,653	15,292	20.95	126.94	0.42	76.8
2015	11,447,546	588,413	2.29	44.48	1.19	104.8	95,443	15,581	11.79	72.22	0.47	81.2

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
See the Technical Notes for fuel conversion factors.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor form(s) including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants"

Table 4.2. Receipts, Average Cost, and Quality of Fossil Fuels: Electric Utilities, 2005 - November 2015 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2005	102,450	3,632	1.29	36.31	5.16	87.9	1,835,221	1,780,721	8.32	8.57	83.4	2.38
2006	99,471	3,516	1.49	42.21	5.11	97.2	2,222,289	2,163,113	7.36	7.56	87.3	2.45
2007	84,812	2,964	1.73	49.57	5.09	105.6	2,378,104	2,315,637	7.47	7.67	84.6	2.61
2008	80,987	2,843	2.13	60.51	5.36	123.8	2,856,354	2,784,642	9.15	9.39	102.0	3.33
2009	109,126	3,833	1.68	47.84	5.02	138.8	3,033,133	2,962,640	5.50	5.63	101.8	2.87
2010	103,152	3,628	2.38	67.65	5.03	109.1	3,395,962	3,327,919	5.43	5.54	101.1	2.99
2011	99,208	3,445	3.08	88.73	5.17	99.9	3,571,348	3,507,613	5.00	5.09	101.8	3.08
2012	72,782	2,521	2.30	66.40	5.46	119.8	4,083,579	4,003,457	3.74	3.81	97.6	2.86
2013	99,088	3,463	2.11	60.30	5.34	101.6	3,939,408	3,851,241	4.49	4.59	97.0	2.99
2014	123,793	4,349	1.89	53.77	5.56	126.3	3,876,549	3,772,596	5.17	5.31	96.7	3.16
Year 2013												
January	6,816	237	1.97	56.67	5.52	93.7	308,726	302,282	4.35	4.44	97.5	2.95
February	7,272	254	2.05	58.54	5.32	115.4	276,355	270,729	4.29	4.38	97.3	2.92
March	5,449	190	2.00	57.27	5.37	80.5	292,291	285,901	4.44	4.54	97.4	2.99
April	8,309	291	2.23	63.79	5.23	133.8	267,830	262,122	4.88	4.99	97.6	3.03
May	8,610	301	2.28	65.22	5.28	83.5	298,278	291,130	4.84	4.96	98.4	3.06
June	8,302	291	2.36	67.19	4.88	83.7	360,943	352,719	4.65	4.75	97.1	3.06
July	9,006	314	2.25	64.47	5.35	93.2	427,831	417,585	4.38	4.48	96.6	3.01
August	7,910	274	2.15	62.01	5.24	82.6	436,060	426,576	4.15	4.24	96.3	2.97
Sept	10,687	373	2.09	59.92	5.32	114.6	360,603	352,812	4.35	4.44	96.7	2.97
October	9,457	333	2.06	58.58	5.37	114.9	309,544	302,556	4.40	4.50	96.9	2.95
November	7,486	262	1.87	53.23	5.41	120.6	281,343	274,910	4.44	4.55	96.6	2.92
December	9,784	343	1.93	54.95	5.75	125.9	319,604	311,919	4.93	5.05	96.3	3.10
Year 2014												
January	8,753	309	1.79	50.66	5.22	88.7	322,118	314,783	6.23	6.37	96.8	3.45
February	8,883	312	2.01	57.15	5.47	113.1	261,721	255,665	7.00	7.16	96.1	3.56
March	11,235	396	1.94	54.97	5.85	119.1	269,374	263,288	5.93	6.06	96.8	3.24
April	11,184	394	2.07	58.69	5.98	186.0	270,455	264,009	5.34	5.47	97.6	3.14
May	10,813	383	2.13	60.11	5.57	121.8	324,319	316,054	5.26	5.40	97.7	3.18
June	9,321	325	1.97	56.35	5.85	95.9	346,749	337,837	5.17	5.31	96.9	3.19
July	9,697	339	1.79	51.25	5.70	113.6	390,076	379,146	4.84	4.98	96.4	3.12
August	10,451	365	1.85	52.89	5.51	122.5	424,307	412,297	4.47	4.60	96.6	3.05
Sept	9,844	345	1.81	51.54	5.40	122.6	353,112	342,647	4.63	4.77	96.2	3.05
October	9,240	326	1.65	46.75	5.25	182.8	323,101	313,490	4.55	4.69	96.8	2.93
November	10,079	354	1.70	48.51	5.43	154.6	288,185	279,556	4.75	4.90	96.6	2.94
December	14,294	499	1.90	54.38	5.40	149.0	303,034	293,825	4.61	4.76	96.6	3.13
Year 2015												
January	11,509	404	1.94	55.36	5.21	129.1	339,941	329,825	4.25	4.38	96.1	2.83
February	8,617	301	1.72	49.17	5.31	90.5	319,661	310,048	4.58	4.73	94.8	2.94
March	7,949	283	1.95	54.67	5.16	144.7	341,334	330,809	3.78	3.90	95.4	2.73
April	8,845	313	1.95	55.11	4.92	146.8	329,072	318,796	3.48	3.59	96.6	2.66
May	10,125	357	1.98	56.26	5.21	136.5	359,496	347,983	3.50	3.62	96.9	2.68
June	7,485	262	1.73	49.60	5.62	111.4	438,111	423,452	3.47	3.59	94.8	2.71
July	11,256	395	1.86	52.91	5.04	118.3	499,719	482,283	3.46	3.59	94.7	2.68
August	9,787	342	1.76	50.54	4.92	109.8	481,069	465,398	3.45	3.57	93.9	2.66
Sept	12,216	429	1.72	49.08	5.09	145.7	427,099	412,983	3.40	3.51	94.7	2.62
October	9,567	334	1.77	50.64	5.05	147.2	375,236	361,599	3.25	3.37	94.4	2.51
November	10,082	354	1.46	41.65	5.64	196.4	353,684	342,861	2.97	3.06	94.7	2.45
Year to Date												
2013	89,304	3,120	2.13	60.88	5.29	99.5	3,619,804	3,539,322	4.45	4.55	97.1	2.99
2014	109,499	3,849	1.89	53.69	5.58	123.8	3,573,515	3,478,771	5.22	5.36	96.8	3.16
2015	107,437	3,772	1.80	51.37	5.19	130.2	4,264,424	4,126,037	3.57	3.69	95.1	2.68
Rolling 12 Months Ending in November												
2014	119,283	4,192	1.89	53.79	5.59	124.0	3,893,119	3,790,690	5.19	5.33	96.7	3.15
2015	121,731	4,272	1.81	51.72	5.21	132.2	4,567,458	4,419,862	3.64	3.76	95.2	2.72

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor form(s) including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants"

Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2005 - November 2015

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2005	4,459,333	229,071	1.56	30.39	1.10	83.0	381,871	61,753	8.30	51.34	0.54	97.2
2006	5,204,402	266,856	1.69	33.04	1.09	97.7	117,524	19,236	9.65	58.98	0.45	104.9
2007	5,275,454	273,216	1.71	33.11	1.06	97.5	125,025	20,486	10.49	64.01	0.45	85.0
2008	5,395,142	281,258	2.03	38.98	1.04	100.4	82,124	13,657	16.30	98.03	0.41	94.4
2009	4,563,080	240,687	2.11	39.94	1.06	101.1	68,030	11,408	10.02	59.76	0.37	102.0
2010	4,555,898	243,585	2.20	41.15	1.21	96.0	49,598	8,420	14.80	87.19	0.35	89.9
2011	4,292,284	233,295	2.28	41.95	1.25	95.9	41,599	7,096	20.30	119.01	0.50	106.9
2012	4,036,436	218,341	2.21	40.92	1.42	104.9	23,922	4,073	22.34	131.28	0.44	79.8
2013	4,032,431	217,572	2.20	40.95	1.48	99.1	43,432	7,205	19.71	118.88	0.45	110.1
2014	4,243,949	226,600	2.25	42.20	1.61	100.1	71,774	11,980	19.90	119.36	0.45	101.0
Year 2013												
January	352,557	18,976	2.21	41.20	1.51	99.1	2,963	495	21.11	126.80	0.54	45.0
February	308,971	16,694	2.18	40.44	1.56	93.3	4,345	712	20.68	126.61	0.51	117.8
March	319,485	17,108	2.24	41.93	1.57	94.1	4,016	661	19.63	119.32	0.41	206.0
April	303,157	16,041	2.21	41.98	1.60	106.6	2,074	350	W	W	0.44	94.2
May	345,413	18,316	2.23	42.25	1.53	113.7	2,404	402	20.48	122.55	0.43	104.1
June	331,183	17,955	2.22	40.98	1.41	95.5	2,048	344	20.51	122.17	0.43	84.9
July	336,772	18,662	2.18	39.50	1.28	86.5	3,386	564	20.03	120.23	0.46	68.0
August	369,852	20,185	2.16	39.71	1.41	99.2	3,449	582	19.54	115.78	0.39	147.1
Sept	361,593	19,609	2.20	40.72	1.48	101.2	4,942	821	18.64	112.29	0.40	180.6
October	338,484	18,086	2.22	41.67	1.47	108.4	3,904	647	19.14	115.55	0.47	175.5
November	328,769	17,596	2.18	40.82	1.50	109.0	6,401	1,051	18.52	113.07	0.49	284.8
December	336,195	18,343	2.20	40.48	1.44	90.2	3,498	576	19.73	119.40	0.43	61.3
Year 2014												
January	356,260	19,360	2.25	41.46	1.56	86.8	14,823	2,481	22.05	132.09	0.46	43.7
February	324,520	17,309	2.31	43.39	1.62	83.0	13,652	2,247	21.53	131.09	0.39	189.3
March	383,238	19,906	2.32	44.67	1.66	97.8	6,096	1,023	22.59	134.69	0.52	66.2
April	368,214	19,193	2.29	44.00	1.60	114.9	2,150	365	21.88	129.00	0.48	127.7
May	358,005	18,880	2.30	43.62	1.65	113.3	3,198	529	20.19	121.99	0.52	145.8
June	346,608	18,528	2.29	42.89	1.64	100.1	2,867	477	21.11	126.96	0.51	141.6
July	346,695	18,879	2.24	41.19	1.53	90.0	2,327	391	21.59	128.64	0.50	96.7
August	366,331	19,740	2.22	41.23	1.63	96.0	2,265	382	W	W	0.49	79.5
Sept	342,392	18,355	2.21	41.35	1.70	101.3	3,161	526	19.20	115.97	0.50	156.6
October	345,463	18,416	2.18	40.98	1.57	115.9	5,762	961	17.58	105.43	0.44	279.8
November	338,083	18,186	2.19	40.72	1.58	101.8	10,107	1,695	15.62	93.26	0.38	374.5
December	368,141	19,847	2.20	40.90	1.54	112.9	5,366	904	15.41	91.46	0.53	201.5
Year 2015												
January	343,021	18,177	2.21	41.66	1.54	92.9	4,210	702	15.12	90.51	0.49	57.3
February	279,974	14,887	2.24	42.12	1.59	81.6	11,143	1,838	13.15	79.87	0.51	37.1
March	272,637	14,193	2.23	42.80	1.58	94.2	3,983	672	13.53	80.53	0.49	120.1
April	270,997	14,215	2.12	40.48	1.64	123.0	2,294	390	12.86	75.90	0.46	125.9
May	270,576	14,133	2.14	41.00	1.76	104.7	3,781	639	13.02	77.28	0.41	138.9
June	262,292	13,988	2.16	40.52	1.76	79.4	2,101	353	13.29	79.16	0.48	96.1
July	295,075	15,969	2.10	38.81	1.64	81.6	2,124	360	12.81	75.81	0.47	69.2
August	323,784	17,230	2.12	39.81	1.66	90.6	3,366	575	12.56	75.45	0.48	134.4
Sept	319,898	17,245	2.05	38.10	1.66	100.2	6,827	1,128	9.45	57.00	0.47	233.3
October	300,888	16,121	1.98	37.04	1.60	115.4	6,918	1,128	8.69	53.34	0.41	306.6
November	270,113	14,513	1.97	36.65	1.57	112.9	5,354	881	9.09	55.30	0.45	223.8
Year to Date												
2013	3,696,236	199,229	2.20	40.99	1.48	100.0	39,934	6,628	19.71	118.83	0.45	118.3
2014	3,875,808	206,753	2.26	42.33	1.61	99.0	66,408	11,076	20.27	121.73	0.45	97.1
2015	3,209,255	170,671	2.12	39.87	1.63	95.8	52,101	8,665	11.72	70.70	0.46	86.0
Rolling 12 Months Ending in November												
2014	4,212,003	225,095	2.25	42.18	1.60	98.2	69,906	11,652	W	W	0.45	94.4
2015	3,577,396	190,517	2.13	39.98	1.62	97.3	57,467	9,569	12.11	72.93	0.47	90.9

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
See the Technical Notes for fuel conversion factors.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor form(s) including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants"

Table 4.3. Receipts, Average Cost, and Quality of Fossil Fuels: Independent Power Producers, 2005 - November 2015 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2005	92,706	3,277	0.90	25.42	5.09	82.9	3,675,165	3,578,722	8.20	8.42	95.8	4.69
2006	85,924	3,031	1.07	30.34	5.13	87.1	3,742,865	3,647,102	6.66	6.84	97.4	3.82
2007	56,580	1,994	1.02	28.95	4.88	69.3	4,097,825	3,990,546	6.92	7.11	97.2	4.06
2008	79,122	2,788	1.47	41.85	4.63	98.8	4,061,830	3,956,155	8.93	9.17	100.5	5.07
2009	49,619	1,732	1.31	37.63	3.87	93.6	4,087,573	3,987,721	4.30	4.41	100.7	3.18
2010	30,079	1,050	1.74	49.80	3.84	72.3	4,212,611	4,119,103	4.94	5.05	100.6	3.57
2011	33,643	1,175	2.54	72.85	4.55	84.6	4,252,040	4,158,617	4.62	4.72	100.8	3.52
2012	23,024	801	0.82	23.98	5.49	92.1	4,810,553	4,696,637	3.17	3.25	93.8	2.74
2013	16,150	575	W	W	5.39	65.6	4,025,263	3,917,898	4.25	4.36	92.8	W
2014	13,781	488	2.48	70.31	5.33	70.9	4,054,540	3,934,672	4.90	5.05	92.7	W
Year 2013												
January	1,444	52	0.00	0.00	5.37	67.8	305,859	297,827	4.59	4.72	92.6	3.29
February	1,424	51	0.00	0.00	5.39	74.3	271,071	264,155	4.73	4.85	91.0	3.39
March	1,474	53	0.00	0.00	5.36	69.9	293,315	285,996	4.36	4.47	92.2	3.27
April	1,507	54	W	W	5.44	76.0	282,900	275,394	4.56	4.68	92.9	W
May	1,628	57	W	W	5.43	118.1	304,542	296,100	4.45	4.58	92.9	W
June	1,541	54	W	W	5.43	80.3	357,118	347,375	4.20	4.32	92.9	W
July	1,543	54	W	W	5.37	67.4	457,359	444,633	4.06	4.17	92.9	W
August	951	34	W	W	5.36	33.2	439,538	428,028	3.67	3.77	93.5	W
Sept	118	4	W	W	5.22	6.1	372,893	362,795	3.83	3.94	93.9	W
October	1,492	53	W	W	5.33	73.4	311,285	302,936	3.86	3.96	93.3	W
November	1,490	52	0.00	0.00	5.43	77.3	301,695	293,861	4.03	4.14	92.9	3.11
December	1,538	55	W	W	5.42	70.9	327,686	318,797	5.05	5.19	92.4	W
Year 2014												
January	922	33	W	W	5.35	52.4	320,157	311,751	8.58	8.81	92.3	W
February	1,039	38	0.00	0.00	5.27	60.8	267,558	260,190	8.33	8.57	91.3	5.10
March	1,127	41	W	W	5.47	62.5	271,937	264,409	6.38	6.56	91.6	W
April	1,047	37	W	W	5.53	57.9	264,781	257,569	4.83	4.96	92.5	W
May	1,419	50	W	W	5.35	88.8	305,484	296,701	4.51	4.65	91.8	W
June	1,349	47	W	W	5.24	102.9	352,539	342,158	4.45	4.58	91.9	W
July	1,124	39	W	W	5.55	67.8	432,673	419,753	3.98	4.10	93.3	W
August	1,401	49	W	W	5.39	83.2	455,652	441,523	3.71	3.83	93.7	W
Sept	946	33	W	W	5.29	47.3	400,187	387,887	3.72	3.84	93.6	W
October	821	29	W	W	5.26	91.2	363,367	352,206	3.58	3.69	92.8	W
November	1,066	36	W	W	5.29	87.9	298,147	289,008	4.27	4.41	92.9	W
December	1,520	53	W	W	5.10	76.9	322,057	311,517	4.04	4.18	93.1	W
Year 2015												
January	1,427	52	W	W	5.10	77.4	357,604	346,044	4.05	4.18	93.3	W
February	562	20	W	W	4.53	30.2	313,841	303,489	5.17	5.34	93.8	W
March	956	34	W	W	4.81	48.7	350,620	339,122	3.36	3.48	93.5	W
April	1,501	54	W	W	4.95	79.5	329,881	318,305	2.65	2.75	94.0	W
May	1,348	48	W	W	5.17	69.2	366,927	354,389	2.75	2.84	93.3	W
June	1,237	44	W	W	5.22	68.9	433,601	418,650	2.69	2.78	93.9	W
July	1,119	40	W	W	5.30	58.6	526,867	509,889	2.71	2.80	94.2	W
August	1,289	45	W	W	5.62	67.3	517,489	500,496	2.71	2.80	93.9	W
Sept	432	16	W	W	5.44	22.3	452,689	437,288	2.69	2.79	93.8	W
October	1,295	47	W	W	5.38	71.6	400,258	386,896	2.55	2.63	93.5	W
November	1,643	59	W	W	5.35	82.7	358,246	346,015	2.31	2.39	93.3	W
Year to Date												
2013	14,611	519	W	W	5.39	65.1	3,697,577	3,599,101	4.18	4.29	92.9	W
2014	12,261	435	2.48	70.34	5.36	70.2	3,732,483	3,623,155	4.97	5.12	92.6	W
2015	12,809	458	2.45	68.46	5.20	61.5	4,408,024	4,260,583	2.99	3.10	93.7	W
Rolling 12 Months Ending in November												
2014	13,799	490	W	W	5.37	70.3	4,060,169	3,941,952	4.94	5.09	92.6	W
2015	14,329	511	W	W	5.19	62.8	4,730,080	4,572,100	3.06	3.17	93.7	W

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor form(s) including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants"

Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commercial Sector, 2005 - November 2015

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2005	11,081	464	2.57	61.21	2.43	24.2	1,684	289	8.28	48.22	0.17	18.3
2006	12,207	518	2.63	61.95	2.51	27.5	798	137	13.50	78.70	0.17	15.5
2007	12,419	531	2.67	62.46	2.58	27.6	249	43	14.04	81.93	0.17	6.2
2008	43,997	2,009	2.65	58.12	1.73	99.4	3,800	633	17.84	107.10	0.37	102.0
2009	41,182	1,876	2.90	63.68	1.67	104.3	3,517	583	10.82	65.26	0.45	122.1
2010	37,778	1,747	2.82	61.06	1.77	101.6	2,395	400	15.24	91.25	0.38	106.3
2011	35,892	1,686	2.92	62.24	1.78	101.1	1,959	325	19.67	118.66	0.55	108.0
2012	4,427	192	3.41	78.71	2.75	13.2	247	43	W	W	0.00	11.0
2013	3,507	151	W	W	3.05	11.2	0	0	--	--	--	0.0
2014	4,096	182	W	W	2.50	17.1	0	0	--	--	--	0.0
Year 2013												
January	390	17	W	W	2.99	11.2	0	0	--	--	--	0.0
February	394	17	W	W	3.07	12.2	0	0	--	--	--	0.0
March	489	21	W	W	2.74	16.0	0	0	--	--	--	0.0
April	241	10	W	W	3.04	10.4	0	0	--	--	--	0.0
May	383	17	W	W	2.96	15.8	0	0	--	--	--	0.0
June	355	16	W	W	2.91	15.2	0	0	--	--	--	0.0
July	209	9	W	W	3.41	8.9	0	0	--	--	--	0.0
August	386	17	W	W	2.82	16.3	0	0	--	--	--	0.0
Sept	143	6	W	W	3.37	6.4	0	0	--	--	--	0.0
October	61	3	W	W	3.34	2.9	0	0	--	--	--	0.0
November	202	9	W	W	3.52	7.9	0	0	--	--	--	0.0
December	254	11	W	W	3.45	8.6	0	0	--	--	--	0.0
Year 2014												
January	400	18	W	W	3.06	13.3	0	0	--	--	--	0.0
February	407	18	W	W	2.91	13.7	0	0	--	--	--	0.0
March	526	24	2.98	66.22	2.39	20.1	0	0	--	--	--	0.0
April	640	30	2.70	58.40	1.24	36.2	0	0	--	--	--	0.0
May	475	21	W	W	2.54	29.1	0	0	--	--	--	0.0
June	116	5	W	W	2.88	6.3	0	0	--	--	--	0.0
July	261	11	W	W	2.52	13.2	0	0	--	--	--	0.0
August	159	7	W	W	2.96	9.4	0	0	--	--	--	0.0
Sept	306	13	W	W	2.56	21.1	0	0	--	--	--	0.0
October	313	14	W	W	2.72	23.9	0	0	--	--	--	0.0
November	229	10	W	W	3.00	12.3	0	0	--	--	--	0.0
December	264	12	W	W	2.96	13.0	0	0	--	--	--	0.0
Year 2015												
January	309	14	W	W	2.65	14.5	0	0	--	--	--	0.0
February	479	23	2.14	44.32	1.71	25.3	0	0	--	--	--	0.0
March	177	8	W	W	2.93	8.9	0	0	--	--	--	0.0
April	298	13	W	W	2.72	20.3	0	0	--	--	--	0.0
May	102	5	W	W	2.90	7.3	0	0	--	--	--	0.0
June	213	9	W	W	2.30	14.4	0	0	--	--	--	0.0
July	124	5	W	W	2.93	7.9	0	0	--	--	--	0.0
August	187	8	W	W	2.46	12.2	0	0	--	--	--	0.0
Sept	49	2	W	W	3.01	3.7	0	0	--	--	--	0.0
October	130	6	W	W	3.08	9.3	0	0	--	--	--	0.0
November	182	8	W	W	3.00	11.5	0	0	--	--	--	0.0
Year to Date												
2013	3,253	140	W	W	3.02	11.4	0	0	--	--	--	0.0
2014	3,832	170	W	W	2.47	17.5	0	0	--	--	--	0.0
2015	2,252	100	2.86	64.22	2.52	12.8	0	0	--	--	--	0.0
Rolling 12 Months Ending in November												
2014	4,086	181	W	W	2.52	16.4	0	0	--	--	--	0.0
2015	2,516	112	W	W	2.55	12.8	0	0	--	--	--	0.0

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
See the Technical Notes for fuel conversion factors.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor form(s) including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants"

Table 4.4. Receipts, Average Cost, and Quality of Fossil Fuels: Commerical Sector, 2005 - November 2015 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2005	0	0	--	--	--	0.0	17,600	17,142	8.38	8.60	25.2	6.25
2006	0	0	--	--	--	0.0	21,369	20,819	8.33	8.55	30.7	6.42
2007	0	0	--	--	--	0.0	23,502	22,955	7.99	8.18	32.8	6.20
2008	370	14	2.14	58.36	5.53	135.3	71,670	69,877	9.01	9.24	105.5	6.94
2009	252	9	1.65	46.54	5.11	102.8	81,134	79,308	5.18	5.30	105.0	4.58
2010	410	15	2.19	60.59	5.67	122.5	92,055	90,130	5.39	5.51	105.1	4.83
2011	268	9	W	W	5.46	147.4	95,287	93,306	5.20	5.31	107.2	W
2012	0	0	--	--	--	0.0	18,315	18,008	5.88	5.98	16.2	W
2013	0	0	--	--	--	0.0	5,497	5,450	W	W	4.6	W
2014	0	0	--	--	--	0.0	5,849	5,795	W	W	4.9	W
Year 2013												
January	0	0	--	--	--	0.0	330	327	W	W	3.4	W
February	0	0	--	--	--	0.0	361	357	W	W	4.1	W
March	0	0	--	--	--	0.0	382	378	W	W	4.0	W
April	0	0	--	--	--	0.0	375	371	W	W	4.3	W
May	0	0	--	--	--	0.0	467	464	W	W	5.2	W
June	0	0	--	--	--	0.0	404	401	W	W	4.2	W
July	0	0	--	--	--	0.0	445	440	W	W	3.6	W
August	0	0	--	--	--	0.0	414	411	W	W	3.7	W
Sept	0	0	--	--	--	0.0	560	554	W	W	5.4	W
October	0	0	--	--	--	0.0	633	629	W	W	6.9	W
November	0	0	--	--	--	0.0	529	524	W	W	5.7	W
December	0	0	--	--	--	0.0	599	592	W	W	5.5	W
Year 2014												
January	0	0	--	--	--	0.0	423	418	W	W	3.1	W
February	0	0	--	--	--	0.0	314	310	W	W	3.6	W
March	0	0	--	--	--	0.0	359	355	W	W	4.2	W
April	0	0	--	--	--	0.0	439	435	W	W	5.4	W
May	0	0	--	--	--	0.0	491	486	W	W	5.4	W
June	0	0	--	--	--	0.0	440	437	W	W	4.6	W
July	0	0	--	--	--	0.0	476	472	W	W	4.4	W
August	0	0	--	--	--	0.0	625	619	W	W	5.4	W
Sept	0	0	--	--	--	0.0	555	551	W	W	5.4	W
October	0	0	--	--	--	0.0	580	575	W	W	5.9	W
November	0	0	--	--	--	0.0	476	472	W	W	5.1	W
December	0	0	--	--	--	0.0	672	666	W	W	6.7	W
Year 2015												
January	0	0	--	--	--	0.0	552	545	W	W	5.0	W
February	0	0	--	--	--	0.0	378	372	W	W	3.8	W
March	0	0	--	--	--	0.0	438	432	W	W	4.0	W
April	0	0	--	--	--	0.0	420	413	W	W	4.7	W
May	0	0	--	--	--	0.0	494	488	W	W	4.7	W
June	0	0	--	--	--	0.0	522	513	W	W	5.0	W
July	0	0	--	--	--	0.0	540	528	W	W	4.8	W
August	0	0	--	--	--	0.0	694	680	W	W	6.0	W
Sept	0	0	--	--	--	0.0	632	620	W	W	5.7	W
October	0	0	--	--	--	0.0	530	523	W	W	5.1	W
November	0	0	--	--	--	0.0	775	749	W	W	7.0	W
Year to Date												
2013	0	0	--	--	--	0.0	4,899	4,859	W	W	4.6	W
2014	0	0	--	--	--	0.0	5,177	5,130	W	W	4.7	W
2015	0	0	--	--	--	0.0	5,975	5,863	W	W	5.1	W
Rolling 12 Months Ending in November												
2014	0	0	--	--	--	0.0	5,775	5,721	W	W	4.8	W
2015	0	0	--	--	--	0.0	6,647	6,529	W	W	5.2	W

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor form(s) including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants"

Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2005 - November 2015

	Coal						Petroleum Liquids					
	Receipts		Average Cost				Receipts		Average Cost			
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMBtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Barrels)	(Dollars per MMBtu)	(Dollars per Barrel)	Average Sulfur Percent by Weight	Percentage of Consumption
Annual Totals												
2005	339,968	16,011	1.94	41.17	1.42	61.9	36,383	5,876	6.64	41.13	1.36	26.4
2006	320,640	15,208	2.03	42.76	1.47	60.2	19,514	3,214	7.57	45.95	1.30	21.2
2007	303,091	13,540	2.20	49.16	1.36	60.1	33,637	5,514	8.53	52.06	1.33	38.8
2008	493,724	22,044	2.72	60.96	1.28	100.7	48,822	7,958	12.50	76.69	1.01	109.0
2009	431,686	19,661	2.81	61.68	1.22	99.5	55,899	9,232	9.83	59.52	0.83	112.8
2010	468,991	21,492	2.75	60.08	1.26	87.2	33,276	5,554	13.21	79.15	0.93	125.6
2011	476,108	22,204	2.93	62.86	1.33	99.5	28,939	4,878	17.67	104.83	1.08	144.8
2012	285,172	13,206	3.02	65.24	1.33	65.8	6,739	1,095	W	W	1.52	40.8
2013	275,543	12,727	W	W	1.32	64.4	2,431	394	18.20	112.29	1.43	15.8
2014	281,867	13,050	W	W	1.33	68.4	2,290	373	17.91	109.99	1.43	15.6
Year 2013												
January	22,923	1,071	W	W	1.23	60.6	330	53	18.32	113.35	1.58	20.1
February	20,789	962	W	W	1.31	60.2	214	35	18.09	110.29	1.33	15.3
March	23,120	1,078	W	W	1.24	61.7	318	52	18.11	111.18	1.25	26.9
April	21,566	986	W	W	1.35	63.0	226	36	W	W	1.63	18.6
May	23,533	1,082	W	W	1.31	66.8	244	39	17.85	110.67	1.41	19.2
June	22,312	1,032	W	W	1.18	66.0	246	40	18.19	112.54	1.69	22.2
July	24,077	1,120	W	W	1.29	67.0	208	33	17.37	108.22	1.66	20.8
August	24,220	1,116	W	W	1.30	68.6	161	26	18.55	113.24	1.38	17.0
Sept	23,042	1,066	W	W	1.37	69.7	80	13	18.61	114.88	1.32	8.8
October	22,581	1,031	W	W	1.38	63.7	102	17	19.09	118.20	0.80	10.1
November	23,845	1,092	W	W	1.42	64.9	104	17	19.02	115.77	1.00	9.5
December	23,534	1,091	W	W	1.40	61.8	198	32	18.35	113.33	1.25	7.7
Year 2014												
January	23,384	1,093	W	W	1.29	61.0	385	62	18.67	115.30	1.30	15.0
February	21,991	1,020	W	W	1.33	62.5	332	53	20.18	125.46	1.04	19.1
March	25,143	1,161	2.92	63.25	1.41	67.2	135	22	20.74	127.74	1.16	9.3
April	22,469	1,042	3.09	66.66	1.31	70.8	142	23	17.86	110.18	1.60	14.8
May	22,090	1,028	W	W	1.27	66.3	144	23	17.67	109.00	1.70	13.6
June	21,987	1,014	W	W	1.40	65.9	197	32	18.15	111.64	1.79	19.5
July	24,237	1,122	W	W	1.29	70.6	149	24	16.89	103.81	1.54	16.2
August	25,258	1,165	W	W	1.35	73.2	117	19	W	W	1.59	14.2
Sept	23,305	1,073	W	W	1.28	71.5	140	23	17.75	108.43	1.86	14.5
October	23,967	1,110	W	W	1.35	74.9	150	25	16.21	98.83	1.56	14.8
November	23,701	1,098	W	W	1.37	70.7	169	28	17.46	105.26	1.42	15.1
December	24,334	1,125	W	W	1.30	68.4	230	38	14.15	85.81	1.33	22.4
Year 2015												
January	17,776	773	W	W	1.59	46.3	159	26	12.53	76.07	2.04	9.7
February	13,311	585	2.87	65.23	1.67	39.3	405	67	16.55	99.49	1.65	18.9
March	17,748	778	W	W	1.48	49.2	1,607	262	W	W	1.99	124.4
April	14,725	649	W	W	1.67	46.6	247	41	13.17	78.37	1.00	24.1
May	15,203	676	W	W	1.46	46.9	59	10	14.16	86.77	1.50	5.1
June	15,221	670	W	W	1.58	46.8	195	31	12.73	79.17	1.58	17.6
July	17,508	778	W	W	1.54	49.9	350	57	12.95	79.16	1.84	35.2
August	15,865	703	W	W	1.48	45.1	127	21	13.09	79.74	1.66	14.2
Sept	15,532	686	W	W	1.39	46.4	487	79	12.03	74.16	1.89	43.7
October	14,220	624	W	W	1.69	45.5	330	55	12.73	76.79	1.28	36.2
November	15,757	686	W	W	1.76	45.5	170	28	11.56	70.68	1.41	15.1
Year to Date												
2013	252,009	11,636	W	W	1.31	64.7	2,233	362	18.19	112.20	1.44	17.5
2014	257,533	11,926	W	W	1.33	68.4	2,060	335	18.33	112.72	1.45	15.1
2015	172,867	7,608	2.83	64.32	1.57	46.2	4,135	678	13.22	80.70	1.76	30.8
Rolling 12 Months Ending in November												
2014	281,067	13,017	W	W	1.34	67.8	2,258	367	W	W	1.43	13.9
2015	197,201	8,733	W	W	1.53	48.2	4,365	715	W	W	1.73	30.2

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Coal includes anthracite, bituminous, subbituminous, lignite, and waste coal; synthetic coal and refined coal; and beginning in 2011, coal-derived synthesis gas. Prior to 2011 coal-derived synthesis gas was included in Other Gases.
Petroleum Liquids includes distillate and residual fuel oils, jet fuel, kerosene, waste oil, and beginning in 2011, propane. Prior to 2011 propane was included in Other Gases.
See the Technical Notes for fuel conversion factors.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor form(s) including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants"

Table 4.5. Receipts, Average Cost, and Quality of Fossil Fuels: Industrial Sector, 2005 - November 2015 (continued)

	Petroleum Coke						Natural Gas					All Fossil Fuels
	Receipts		Average Cost				Receipts		Average Cost			Average Cost
Period	(Billion Btu)	(Thousand Tons)	(Dollars per MMbtu)	(Dollars per Ton)	Average Sulfur Percent by Weight	Percentage of Consumption	(Billion Btu)	(Thousand Mcf)	(Dollars per MMBtu)	(Dollars per Mcf)	Percentage of Consumption	(Dollars per MMBtu)
Annual Totals												
2005	16,620	594	1.21	33.75	5.44	58.2	828,882	805,132	8.00	8.24	74.3	6.18
2006	17,875	646	1.63	45.05	5.43	42.7	869,157	844,211	7.02	7.22	75.7	5.64
2007	19,700	698	1.96	55.42	5.52	43.6	896,803	871,178	6.97	7.18	82.9	5.78
2008	39,246	1,396	3.34	93.84	4.92	117.9	1,099,613	1,068,372	8.95	9.22	111.9	7.10
2009	38,924	1,381	1.80	50.82	4.51	114.2	1,117,489	1,088,880	4.27	4.38	110.0	4.02
2010	35,866	1,269	2.46	69.38	4.90	100.5	1,166,768	1,135,917	4.64	4.77	110.4	4.24
2011	37,981	1,351	W	W	5.03	108.3	1,331,977	1,296,628	4.28	4.40	122.0	W
2012	23,861	858	2.62	72.96	5.86	42.2	834,245	813,288	2.97	3.05	70.8	W
2013	17,236	623	W	W	5.82	30.5	750,946	728,835	W	W	62.3	W
2014	9,736	358	W	W	5.83	23.2	742,347	718,360	W	W	62.7	W
Year 2013												
January	1,844	67	2.30	63.72	6.13	34.8	61,781	60,209	W	W	60.2	W
February	1,058	38	2.38	65.94	6.03	30.4	59,307	57,544	W	W	64.4	W
March	1,317	47	2.40	67.24	6.03	26.2	63,464	61,243	W	W	63.0	W
April	1,424	51	W	W	5.96	30.6	58,374	56,733	W	W	61.4	W
May	1,520	54	W	W	5.82	28.5	62,146	60,458	W	W	64.7	W
June	1,686	61	W	W	5.70	32.1	64,256	62,350	W	W	65.2	W
July	1,666	59	W	W	5.99	30.2	63,859	61,986	W	W	59.3	W
August	2,041	72	W	W	5.94	33.2	64,617	62,815	W	W	60.6	W
Sept	1,565	56	W	W	5.68	34.3	60,028	58,253	W	W	60.9	W
October	1,252	46	W	W	5.36	29.1	62,118	60,239	W	W	63.0	W
November	677	25	2.36	65.25	5.58	21.5	64,376	62,456	W	W	64.0	W
December	1,189	45	W	W	5.28	31.4	66,621	64,548	W	W	61.4	W
Year 2014												
January	398	15	W	W	5.87	11.7	66,078	64,072	W	W	60.7	W
February	339	13	W	W	5.95	11.2	59,291	57,453	W	W	64.6	W
March	834	31	W	W	5.76	24.3	65,433	63,434	W	W	67.2	W
April	755	28	W	W	5.88	19.7	58,439	56,714	W	W	63.4	W
May	408	15	W	W	5.78	11.7	60,012	58,094	W	W	63.1	W
June	990	36	W	W	5.66	25.6	60,327	58,411	W	W	64.0	W
July	794	29	W	W	5.79	20.2	64,393	62,325	W	W	62.9	W
August	912	34	W	W	5.80	25.1	64,667	62,493	W	W	62.0	W
Sept	997	36	W	W	5.92	27.6	59,277	57,273	W	W	60.5	W
October	950	34	W	W	5.92	33.0	58,228	56,273	W	W	59.5	W
November	1,071	40	W	W	5.83	33.3	61,753	59,657	W	W	63.3	W
December	1,286	47	W	W	5.86	36.1	64,449	62,162	W	W	62.3	W
Year 2015												
January	788	29	W	W	5.74	18.1	60,633	58,625	W	W	56.9	W
February	481	17	W	W	6.17	11.2	57,569	55,731	W	W	61.5	W
March	601	21	W	W	5.99	13.5	61,124	59,136	W	W	60.7	W
April	712	25	W	W	6.18	18.1	57,402	55,568	W	W	61.2	W
May	410	14	W	W	6.14	12.8	59,979	57,979	W	W	61.1	W
June	659	24	W	W	5.64	19.6	61,171	58,979	W	W	60.9	W
July	422	16	W	W	5.68	12.8	64,482	62,227	W	W	61.7	W
August	251	9	W	W	6.00	7.5	65,392	63,289	W	W	61.4	W
Sept	386	14	W	W	6.21	11.2	61,022	59,033	W	W	61.3	W
October	0	0	--	--	--	0.0	54,884	53,173	W	W	56.0	W
November	153	5	W	W	6.30	4.4	62,502	60,567	W	W	60.7	W
Year to Date												
2013	16,048	577	W	W	5.86	30.4	684,325	664,286	W	W	62.4	W
2014	8,450	311	W	W	5.82	22.0	677,899	656,198	W	W	62.8	W
2015	4,863	175	W	W	5.96	12.2	666,160	644,307	W	W	60.3	W
Rolling 12 Months Ending in November												
2014	9,639	356	W	W	5.76	22.8	744,520	720,747	W	W	62.7	W
2015	6,148	222	W	W	5.94	14.2	730,609	706,469	W	W	60.5	W

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions.
Values for 2014 and prior years are final. Values for 2015 are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923 and predecessor forms.
Totals may not equal sum of components because of independent rounding.
Petroleum Coke includes petroleum coke-derived synthesis gas. Prior to 2011, petroleum coke-derived synthesis gas was included in Other Gases.
See the Technical Notes for fuel conversion factors.

Sources: U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report" and predecessor form(s) including Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report" and Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants"

Table 4.6.A. Receipts of Coal Delivered for Electricity Generation by State, November 2015 and 2014
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	255	136	88.0%	105	35	148	98	0	0	1	2
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	5	5	1.8%	0	0	4	3	0	0	1	2
Massachusetts	144	95	52.0%	0	0	144	95	0	0	0	0
New Hampshire	105	35	197.0%	105	35	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	2,005	2,930	-32.0%	0	0	1,961	2,862	0	0	44	69
New Jersey	52	93	-44.0%	0	0	52	93	0	0	0	0
New York	155	124	25.0%	0	0	122	98	0	0	33	25
Pennsylvania	1,798	2,714	-34.0%	0	0	1,786	2,670	0	0	12	44
East North Central	13,625	16,895	-19.0%	8,642	10,532	4,769	6,068	0	0	214	294
Illinois	4,537	5,509	-18.0%	1,147	1,191	3,228	4,100	0	0	162	218
Indiana	2,646	3,484	-24.0%	2,397	3,233	248	251	0	0	0	0
Michigan	2,405	2,955	-19.0%	2,387	2,945	18	0	0	0	0	10
Ohio	2,190	3,074	-29.0%	893	1,332	1,275	1,717	0	0	22	24
Wisconsin	1,846	1,872	-1.4%	1,817	1,830	0	0	0	0	29	42
West North Central	10,344	11,669	-11.0%	10,229	11,360	0	0	8	10	107	299
Iowa	1,589	1,665	-4.5%	1,482	1,471	0	0	0	0	107	194
Kansas	1,150	1,327	-13.0%	1,150	1,327	0	0	0	0	0	0
Minnesota	1,430	1,646	-13.0%	1,430	1,606	0	0	0	0	0	40
Missouri	3,131	3,546	-12.0%	3,123	3,536	0	0	8	10	0	0
Nebraska	1,075	1,320	-19.0%	1,075	1,254	0	0	0	0	0	65
North Dakota	1,843	2,083	-12.0%	1,843	2,083	0	0	0	0	0	0
South Dakota	127	83	53.0%	127	83	0	0	0	0	0	0
South Atlantic	8,067	10,241	-21.0%	7,135	8,772	808	1,260	0	0	124	209
Delaware	0	12	-100.0%	0	0	0	12	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,425	2,057	-31.0%	1,401	1,983	25	51	0	0	0	23
Georgia	1,533	1,592	-3.7%	1,513	1,556	0	0	0	0	20	36
Maryland	405	616	-34.0%	0	0	379	586	0	0	26	30
North Carolina	954	1,413	-33.0%	954	1,339	0	44	0	0	0	30
South Carolina	667	1,053	-37.0%	651	1,034	0	0	0	0	17	19
Virginia	550	740	-26.0%	480	661	45	54	0	0	25	25
West Virginia	2,533	2,758	-8.1%	2,138	2,199	359	513	0	0	36	46
East South Central	6,235	6,622	-5.8%	5,824	6,389	303	115	0	0	108	118
Alabama	1,680	1,782	-5.7%	1,680	1,782	0	0	0	0	0	0
Kentucky	3,463	3,338	3.7%	3,463	3,338	0	0	0	0	0	0
Mississippi	446	319	40.0%	143	204	303	115	0	0	0	0
Tennessee	647	1,183	-45.0%	539	1,065	0	0	0	0	108	118
West South Central	11,274	12,899	-13.0%	5,963	6,538	5,300	6,308	0	0	12	52
Arkansas	994	1,626	-39.0%	785	1,440	197	181	0	0	12	5
Louisiana	915	991	-7.6%	635	528	280	462	0	0	0	0
Oklahoma	1,650	1,806	-8.7%	1,552	1,637	98	122	0	0	0	47
Texas	7,716	8,475	-9.0%	2,991	2,933	4,725	5,542	0	0	0	0
Mountain	8,476	8,961	-5.4%	7,600	7,954	876	1,007	0	0	0	0
Arizona	1,938	1,856	4.4%	1,938	1,856	0	0	0	0	0	0
Colorado	1,369	1,617	-15.0%	1,369	1,617	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	832	896	-7.1%	0	26	832	870	0	0	0	0
Nevada	93	400	-77.0%	48	340	44	60	0	0	0	0
New Mexico	1,085	881	23.0%	1,085	881	0	0	0	0	0	0
Utah	1,162	1,224	-5.1%	1,162	1,188	0	36	0	0	0	0
Wyoming	1,998	2,088	-4.3%	1,998	2,046	0	41	0	0	0	0
Pacific Contiguous	428	529	-19.0%	125	124	226	351	0	0	76	54
California	76	54	40.0%	0	0	0	0	0	0	76	54
Oregon	125	124	1.0%	125	124	0	0	0	0	0	0
Washington	226	351	-35.0%	0	0	226	351	0	0	0	0
Pacific Noncontiguous	148	117	26.0%	26	0	122	117	0	0	0	0
Alaska	26	0	--	26	0	0	0	0	0	0	0
Hawaii	122	117	3.5%	0	0	122	117	0	0	0	0
U.S. Total	60,857	71,000	-14.0%	45,650	51,705	14,513	18,186	8	10	686	1,098

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions. Values for 2014 are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 4.6.B. Receipts of Coal Delivered for Electricity Generation by State, (Year-to-Date) November 2015 and 2014
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	1,929	2,384	-19.0%	657	489	1,244	1,868	0	0	28	27
Connecticut	251	406	-38.0%	0	0	251	406	0	0	0	0
Maine	97	77	26.0%	0	0	69	49	0	0	28	27
Massachusetts	925	1,159	-20.0%	0	0	925	1,159	0	0	0	0
New Hampshire	657	489	34.0%	657	489	0	0	0	0	0	0
Rhode Island	0	254	-100.0%	0	0	0	254	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	25,709	38,509	-33.0%	0	166	25,296	37,519	0	0	413	824
New Jersey	785	962	-18.0%	0	0	785	962	0	0	0	0
New York	953	2,770	-66.0%	0	0	661	2,479	0	0	292	291
Pennsylvania	23,972	34,777	-31.0%	0	166	23,851	34,078	0	0	121	533
East North Central	159,467	178,418	-11.0%	99,696	109,348	57,296	66,012	27	70	2,448	2,988
Illinois	50,646	56,826	-11.0%	10,860	12,635	38,037	42,085	0	0	1,749	2,106
Indiana	32,409	37,382	-13.0%	29,787	34,779	2,622	2,602	0	0	0	0
Michigan	26,340	27,719	-5.0%	26,048	27,340	242	219	27	70	23	90
Ohio	28,792	36,292	-21.0%	12,175	14,933	16,395	21,106	0	0	222	253
Wisconsin	21,281	20,199	5.4%	20,826	19,660	0	0	0	0	454	539
West North Central	124,879	124,734	0.1%	123,621	121,440	0	0	73	100	1,186	3,193
Iowa	19,846	17,567	13.0%	18,660	15,474	0	0	0	0	1,186	2,093
Kansas	16,431	16,631	-1.2%	16,431	16,631	0	0	0	0	0	0
Minnesota	15,592	15,075	3.4%	15,577	14,691	0	0	14	19	0	366
Missouri	37,951	37,439	1.4%	37,892	37,358	0	0	59	81	0	0
Nebraska	12,860	14,812	-13.0%	12,860	14,077	0	0	0	0	0	735
North Dakota	21,239	21,610	-1.7%	21,239	21,610	0	0	0	0	0	0
South Dakota	962	1,599	-40.0%	962	1,599	0	0	0	0	0	0
South Atlantic	102,486	112,878	-9.2%	89,826	94,712	11,370	15,963	0	0	1,290	2,203
Delaware	152	465	-67.0%	0	0	152	465	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	18,109	19,914	-9.1%	17,545	18,922	564	766	0	0	0	226
Georgia	18,727	18,821	-0.5%	18,542	18,426	0	0	0	0	185	395
Maryland	6,067	7,703	-21.0%	0	0	5,779	7,373	0	0	288	330
North Carolina	14,375	16,016	-10.0%	14,375	15,176	0	497	0	0	0	343
South Carolina	10,318	9,983	3.4%	10,173	9,805	0	0	0	0	146	178
Virginia	7,075	9,434	-25.0%	6,127	8,132	632	972	0	0	315	330
West Virginia	27,663	30,543	-9.4%	23,064	24,252	4,242	5,891	0	0	357	400
East South Central	71,534	80,268	-11.0%	67,215	76,512	2,995	2,372	0	0	1,324	1,384
Alabama	18,845	21,227	-11.0%	18,845	21,227	0	0	0	0	0	0
Kentucky	37,781	35,139	7.5%	37,781	35,139	0	0	0	0	0	0
Mississippi	4,890	5,654	-14.0%	1,894	3,282	2,995	2,372	0	0	0	0
Tennessee	10,019	18,248	-45.0%	8,695	16,864	0	0	0	0	1,324	1,384
West South Central	125,420	136,918	-8.4%	65,517	68,843	59,828	67,575	0	0	75	499
Arkansas	13,917	16,967	-18.0%	11,613	15,083	2,228	1,831	0	0	75	53
Louisiana	9,969	10,926	-8.8%	5,832	5,084	4,137	5,842	0	0	0	0
Oklahoma	16,760	17,188	-2.5%	15,517	15,681	1,244	1,060	0	0	0	446
Texas	84,774	91,837	-7.7%	32,555	32,995	52,219	58,842	0	0	0	0
Mountain	95,240	97,365	-2.2%	86,063	86,756	8,950	10,335	0	0	227	273
Arizona	20,258	20,655	-1.9%	20,258	20,655	0	0	0	0	0	0
Colorado	16,904	15,736	7.4%	16,904	15,736	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	8,484	8,983	-5.6%	0	258	8,484	8,725	0	0	0	0
Nevada	1,238	3,663	-66.0%	772	2,952	467	710	0	0	0	0
New Mexico	11,285	10,709	5.4%	11,285	10,709	0	0	0	0	0	0
Utah	14,040	13,425	4.6%	13,813	12,731	0	421	0	0	227	273
Wyoming	23,032	24,195	-4.8%	23,032	23,716	0	479	0	0	0	0
Pacific Contiguous	4,976	6,936	-28.0%	1,324	2,020	3,035	4,382	0	0	617	534
California	617	717	-14.0%	0	0	0	183	0	0	617	534
Oregon	1,324	2,020	-34.0%	1,324	2,020	0	0	0	0	0	0
Washington	3,035	4,199	-28.0%	0	0	3,035	4,199	0	0	0	0
Pacific Noncontiguous	709	725	-2.2%	53	0	656	725	0	0	0	0
Alaska	53	0	--	53	0	0	0	0	0	0	0
Hawaii	656	725	-9.5%	0	0	656	725	0	0	0	0
U.S. Total	712,351	779,135	-8.6%	533,972	560,287	170,671	206,753	100	170	7,608	11,926

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions. Values for 2014 are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 4.7.A. Receipts of Petroleum Liquids Delivered for Electricity Generation by State, November 2015 and 2014
(Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	500	1,074	-53.0%	1	66	493	1,001	0	0	7	7
Connecticut	79	346	-77.0%	0	0	79	346	0	0	0	0
Maine	184	178	3.4%	0	0	177	171	0	0	7	7
Massachusetts	233	509	-54.0%	0	64	233	445	0	0	0	0
New Hampshire	1	40	-99.0%	1	2	0	38	0	0	0	0
Rhode Island	3	0	--	0	0	3	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	565	437	29.0%	431	115	132	320	0	0	2	3
New Jersey	6	14	-60.0%	0	0	6	14	0	0	0	0
New York	519	221	135.0%	431	115	86	105	0	0	2	2
Pennsylvania	41	202	-80.0%	0	0	41	201	0	0	0	1
East North Central	63	144	-56.0%	49	116	13	27	0	0	1	1
Illinois	10	17	-41.0%	4	5	6	12	0	0	0	0
Indiana	13	60	-79.0%	13	60	0	0	0	0	0	0
Michigan	10	15	-37.0%	9	15	0	0	0	0	0	0
Ohio	17	35	-52.0%	9	21	8	14	0	0	0	1
Wisconsin	14	16	-12.0%	14	15	0	1	0	0	0	0
West North Central	53	75	-30.0%	53	75	0	0	0	0	0	0
Iowa	6	18	-68.0%	6	18	0	0	0	0	0	0
Kansas	13	3	358.0%	13	3	0	0	0	0	0	0
Minnesota	18	13	43.0%	18	13	0	0	0	0	0	0
Missouri	10	39	-73.0%	10	39	0	0	0	0	0	0
Nebraska	0	1	-58.0%	0	1	0	0	0	0	0	0
North Dakota	5	1	273.0%	5	1	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	229	359	-36.0%	139	188	72	154	0	0	17	16
Delaware	14	0	--	0	0	14	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	15	40	-62.0%	15	35	0	3	0	0	0	2
Georgia	24	49	-52.0%	18	40	0	4	0	0	6	5
Maryland	23	69	-67.0%	0	0	23	69	0	0	0	0
North Carolina	78	17	364.0%	78	16	0	0	0	0	0	0
South Carolina	20	18	13.0%	10	11	0	0	0	0	10	7
Virginia	45	140	-68.0%	9	67	35	71	0	0	1	2
West Virginia	10	26	-61.0%	10	19	0	8	0	0	0	0
East South Central	26	32	-19.0%	26	31	0	1	0	0	0	1
Alabama	3	8	-58.0%	3	7	0	1	0	0	0	0
Kentucky	17	14	23.0%	17	14	0	0	0	0	0	0
Mississippi	0	5	-100.0%	0	5	0	0	0	0	0	0
Tennessee	6	6	8.0%	6	5	0	0	0	0	0	1
West South Central	22	81	-72.0%	17	64	5	17	0	0	0	0
Arkansas	16	2	653.0%	12	0	4	2	0	0	0	0
Louisiana	1	53	-98.0%	0	48	1	5	0	0	0	0
Oklahoma	0	11	-100.0%	0	11	0	0	0	0	0	0
Texas	5	15	-66.0%	5	5	0	10	0	0	0	0
Mountain	22	23	-4.7%	20	20	3	4	0	0	0	0
Arizona	7	8	-14.0%	7	8	0	0	0	0	0	0
Colorado	0	0	-100.0%	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	2	3	-30.0%	0	0	2	3	0	0	0	0
Nevada	1	1	11.0%	1	1	0	0	0	0	0	0
New Mexico	2	4	-33.0%	2	4	0	0	0	0	0	0
Utah	2	1	57.0%	2	1	0	0	0	0	0	0
Wyoming	8	6	27.0%	8	6	0	0	0	0	0	0
Pacific Contiguous	5	0	NM	4	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	4	0	--	4	0	0	0	0	0	0	0
Washington	1	0	413.0%	1	0	0	0	0	0	0	0
Pacific Noncontiguous	814	735	11.0%	651	563	163	172	0	0	0	0
Alaska	2	0	--	2	0	0	0	0	0	0	0
Hawaii	812	735	11.0%	649	563	163	172	0	0	0	0
U.S. Total	2,300	2,959	-22.0%	1,391	1,237	881	1,695	0	0	28	28

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions. Values for 2014 are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 4.7.B. Receipts of Petroleum Liquids Delivered for Electricity Generation by State, (Year-to-Date) November 2015 and 2014 (Thousand Barrels)

Census Division and State	All Sectors			Electric Power Sector				Commercial Sector		Industrial Sector	
				Electric Utilities		Independent Power Producers					
	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	2,927	4,210	-30.0%	63	645	2,823	3,518	0	0	41	47
Connecticut	761	1,020	-25.0%	0	0	761	1,020	0	0	0	0
Maine	870	498	75.0%	0	0	829	451	0	0	41	47
Massachusetts	1,101	1,864	-41.0%	6	301	1,095	1,563	0	0	0	0
New Hampshire	81	611	-87.0%	57	345	23	267	0	0	0	0
Rhode Island	115	217	-47.0%	0	0	115	217	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	4,026	4,670	-14.0%	1,510	1,019	2,505	3,628	0	0	11	23
New Jersey	117	280	-58.0%	0	0	117	280	0	0	0	0
New York	2,966	3,123	-5.0%	1,510	1,019	1,445	2,090	0	0	11	13
Pennsylvania	943	1,267	-26.0%	0	0	943	1,258	0	0	0	9
East North Central	990	1,351	-27.0%	702	804	252	509	0	0	36	39
Illinois	90	167	-46.0%	30	42	61	125	0	0	0	0
Indiana	251	299	-16.0%	251	299	0	0	0	0	0	0
Michigan	161	206	-22.0%	152	195	0	0	0	0	10	11
Ohio	418	579	-28.0%	206	175	188	380	0	0	24	24
Wisconsin	69	100	-31.0%	64	93	4	4	0	0	2	3
West North Central	362	535	-32.0%	362	532	0	3	0	0	0	0
Iowa	60	96	-37.0%	60	96	0	0	0	0	0	0
Kansas	71	75	-5.6%	71	75	0	0	0	0	0	0
Minnesota	42	88	-52.0%	42	84	0	3	0	0	0	0
Missouri	133	194	-31.0%	133	194	0	0	0	0	0	0
Nebraska	2	34	-93.0%	2	34	0	0	0	0	0	0
North Dakota	43	43	0.8%	43	43	0	0	0	0	0	0
South Dakota	11	6	86.0%	11	6	0	0	0	0	0	0
South Atlantic	4,817	5,164	-6.7%	3,131	3,559	1,100	1,381	0	0	586	224
Delaware	183	23	704.0%	0	0	183	23	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	523	410	27.0%	519	381	4	11	0	0	0	18
Georgia	260	362	-28.0%	132	238	75	51	0	0	53	73
Maryland	452	868	-48.0%	0	0	452	868	0	0	0	0
North Carolina	564	725	-22.0%	531	687	33	18	0	0	0	20
South Carolina	427	549	-22.0%	286	470	7	0	0	0	134	79
Virginia	2,204	1,975	12.0%	1,475	1,574	330	367	0	0	399	34
West Virginia	204	250	-18.0%	188	208	16	43	0	0	0	0
East South Central	461	493	-6.5%	431	468	27	23	0	0	4	2
Alabama	93	123	-24.0%	67	100	27	23	0	0	0	0
Kentucky	170	206	-18.0%	170	206	0	0	0	0	0	0
Mississippi	45	23	91.0%	45	23	0	0	0	0	0	0
Tennessee	154	141	8.7%	150	139	0	0	0	0	4	2
West South Central	328	437	-25.0%	230	258	98	178	0	0	0	0
Arkansas	94	29	218.0%	71	12	22	17	0	0	0	0
Louisiana	94	204	-54.0%	70	157	24	48	0	0	0	0
Oklahoma	4	27	-86.0%	4	27	0	0	0	0	0	0
Texas	137	176	-23.0%	85	63	51	113	0	0	0	0
Mountain	328	318	3.2%	310	291	18	27	0	0	0	0
Arizona	94	83	14.0%	94	83	0	0	0	0	0	0
Colorado	6	5	18.0%	6	5	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	13	22	-42.0%	0	0	13	22	0	0	0	0
Nevada	28	25	9.0%	22	21	6	4	0	0	0	0
New Mexico	95	95	0.0%	95	95	0	0	0	0	0	0
Utah	28	25	8.4%	28	24	0	1	0	0	0	0
Wyoming	66	63	4.8%	66	63	0	0	0	0	0	0
Pacific Contiguous	15	27	-46.0%	5	15	9	12	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	5	15	-69.0%	5	15	0	0	0	0	0	0
Washington	10	12	-18.0%	1	0	9	12	0	0	0	0
Pacific Noncontiguous	8,634	8,331	3.6%	6,801	6,535	1,833	1,796	0	0	0	0
Alaska	3	0	--	3	0	0	0	0	0	0	0
Hawaii	8,630	8,331	3.6%	6,797	6,535	1,833	1,796	0	0	0	0
U.S. Total	22,888	25,537	-10.0%	13,545	14,126	8,665	11,076	0	0	678	335

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions. Values for 2014 are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 4.8.A. Receipts of Petroleum Coke Delivered for Electricity Generation by State, November 2015 and 2014
(Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	9	-100.0%	0	0	0	0	0	0	0	9
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	9	-100.0%	0	0	0	0	0	0	0	9
East North Central	143	113	26.0%	78	69	59	36	0	0	5	8
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	56	25	127.0%	56	25	0	0	0	0	0	0
Michigan	19	31	-40.0%	19	31	0	0	0	0	0	0
Ohio	59	36	63.0%	0	0	59	36	0	0	0	0
Wisconsin	9	21	-57.0%	4	13	0	0	0	0	5	8
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	96	50	92.0%	96	28	0	0	0	0	0	22
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	96	28	247.0%	96	28	0	0	0	0	0	0
Georgia	0	22	-100.0%	0	0	0	0	0	0	0	22
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	48	68	-29.0%	48	68	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	48	68	-29.0%	48	68	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	132	190	-31.0%	132	190	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	132	190	-31.0%	132	190	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	0	--	0	0	0	0	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	419	431	-2.6%	354	354	59	36	0	0	5	40

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions. Values for 2014 are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 4.8.B. Receipts of Petroleum Coke Delivered for Electricity Generation by State, (Year-to-Date) November 2015 and 2014 (Thousand Tons)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	0	0	--	0	0	0	0	0	0	0	0
Connecticut	0	0	--	0	0	0	0	0	0	0	0
Maine	0	0	--	0	0	0	0	0	0	0	0
Massachusetts	0	0	--	0	0	0	0	0	0	0	0
New Hampshire	0	0	--	0	0	0	0	0	0	0	0
Rhode Island	0	0	--	0	0	0	0	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	0	98	-100.0%	0	0	0	0	0	0	0	98
New Jersey	0	0	--	0	0	0	0	0	0	0	0
New York	0	0	--	0	0	0	0	0	0	0	0
Pennsylvania	0	98	-100.0%	0	0	0	0	0	0	0	98
East North Central	1,192	1,333	-11.0%	666	795	458	435	0	0	68	103
Illinois	0	0	--	0	0	0	0	0	0	0	0
Indiana	353	386	-8.5%	353	386	0	0	0	0	0	0
Michigan	295	372	-21.0%	282	353	13	19	0	0	0	0
Ohio	445	416	7.0%	0	0	445	416	0	0	0	0
Wisconsin	98	159	-38.0%	30	56	0	0	0	0	68	103
West North Central	0	0	--	0	0	0	0	0	0	0	0
Iowa	0	0	--	0	0	0	0	0	0	0	0
Kansas	0	0	--	0	0	0	0	0	0	0	0
Minnesota	0	0	--	0	0	0	0	0	0	0	0
Missouri	0	0	--	0	0	0	0	0	0	0	0
Nebraska	0	0	--	0	0	0	0	0	0	0	0
North Dakota	0	0	--	0	0	0	0	0	0	0	0
South Dakota	0	0	--	0	0	0	0	0	0	0	0
South Atlantic	1,043	933	12.0%	936	823	0	0	0	0	107	109
Delaware	0	0	--	0	0	0	0	0	0	0	0
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	936	823	14.0%	936	823	0	0	0	0	0	0
Georgia	107	109	-2.1%	0	0	0	0	0	0	107	109
Maryland	0	0	--	0	0	0	0	0	0	0	0
North Carolina	0	0	--	0	0	0	0	0	0	0	0
South Carolina	0	0	--	0	0	0	0	0	0	0	0
Virginia	0	0	--	0	0	0	0	0	0	0	0
West Virginia	0	0	--	0	0	0	0	0	0	0	0
East South Central	559	481	16.0%	559	481	0	0	0	0	0	0
Alabama	0	0	--	0	0	0	0	0	0	0	0
Kentucky	559	481	16.0%	559	481	0	0	0	0	0	0
Mississippi	0	0	--	0	0	0	0	0	0	0	0
Tennessee	0	0	--	0	0	0	0	0	0	0	0
West South Central	1,611	1,750	-8.0%	1,611	1,750	0	0	0	0	0	0
Arkansas	0	0	--	0	0	0	0	0	0	0	0
Louisiana	1,611	1,750	-8.0%	1,611	1,750	0	0	0	0	0	0
Oklahoma	0	0	--	0	0	0	0	0	0	0	0
Texas	0	0	--	0	0	0	0	0	0	0	0
Mountain	0	0	--	0	0	0	0	0	0	0	0
Arizona	0	0	--	0	0	0	0	0	0	0	0
Colorado	0	0	--	0	0	0	0	0	0	0	0
Idaho	0	0	--	0	0	0	0	0	0	0	0
Montana	0	0	--	0	0	0	0	0	0	0	0
Nevada	0	0	--	0	0	0	0	0	0	0	0
New Mexico	0	0	--	0	0	0	0	0	0	0	0
Utah	0	0	--	0	0	0	0	0	0	0	0
Wyoming	0	0	--	0	0	0	0	0	0	0	0
Pacific Contiguous	0	0	--	0	0	0	0	0	0	0	0
California	0	0	--	0	0	0	0	0	0	0	0
Oregon	0	0	--	0	0	0	0	0	0	0	0
Washington	0	0	--	0	0	0	0	0	0	0	0
Pacific Noncontiguous	0	0	--	0	0	0	0	0	0	0	0
Alaska	0	0	--	0	0	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	4,405	4,595	-4.1%	3,772	3,849	458	435	0	0	175	311

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions. Values for 2014 are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 4.9.A. Receipts of Natural Gas Delivered for Electricity Generation by State, November 2015 and 2014
(Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	26,147	22,734	15.0%	60	49	26,083	22,446	0	0	4	239
Connecticut	9,530	8,147	17.0%	0	0	9,530	8,147	0	0	0	0
Maine	1,812	2,399	-24.0%	0	0	1,808	2,161	0	0	4	239
Massachusetts	7,701	7,611	1.2%	28	18	7,674	7,592	0	0	0	0
New Hampshire	3,796	1,985	91.0%	32	31	3,764	1,954	0	0	0	0
Rhode Island	3,307	2,591	28.0%	0	0	3,307	2,591	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	86,175	74,194	16.0%	7,370	7,481	78,663	66,516	0	0	142	197
New Jersey	22,567	19,416	16.0%	0	0	22,567	19,416	0	0	0	0
New York	29,293	29,096	0.7%	7,370	7,481	21,875	21,522	0	0	49	93
Pennsylvania	34,315	25,682	34.0%	0	0	34,221	25,578	0	0	94	104
East North Central	53,772	34,008	58.0%	24,069	17,066	28,317	16,179	679	467	707	296
Illinois	6,209	2,159	188.0%	206	307	5,999	1,847	0	0	5	5
Indiana	10,784	8,151	32.0%	8,185	6,400	2,599	1,752	0	0	0	0
Michigan	13,491	6,436	110.0%	3,238	1,250	9,126	4,609	679	467	448	110
Ohio	15,527	11,612	34.0%	5,414	4,096	10,095	7,464	0	0	17	52
Wisconsin	7,762	5,650	37.0%	7,027	5,013	498	508	0	0	236	129
West North Central	6,695	6,923	-3.3%	5,853	5,858	771	1,055	70	5	2	5
Iowa	441	1,194	-63.0%	440	1,190	0	0	0	0	2	4
Kansas	578	940	-38.0%	578	940	0	0	0	0	0	0
Minnesota	3,009	1,989	51.0%	2,703	1,597	306	391	1	0	0	1
Missouri	2,123	2,319	-8.5%	1,588	1,651	465	664	69	4	0	0
Nebraska	127	184	-31.0%	127	184	0	0	0	0	0	0
North Dakota	4	11	-62.0%	4	11	0	0	0	0	0	0
South Dakota	413	285	45.0%	413	285	0	0	0	0	0	0
South Atlantic	167,228	130,496	28.0%	132,443	107,731	31,831	20,576	0	0	2,954	2,189
Delaware	3,026	4,879	-38.0%	0	0	2,087	4,016	0	0	939	863
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	86,988	65,348	33.0%	79,941	63,460	7,047	1,845	0	0	0	43
Georgia	28,866	25,597	13.0%	19,898	18,225	7,723	6,560	0	0	1,245	813
Maryland	3,006	903	233.0%	0	0	2,954	881	0	0	52	22
North Carolina	13,204	16,903	-22.0%	11,987	14,310	1,218	2,583	0	0	0	10
South Carolina	13,703	5,709	140.0%	12,085	4,851	1,546	798	0	0	72	60
Virginia	17,695	10,840	63.0%	8,504	6,872	8,544	3,590	0	0	648	379
West Virginia	739	317	133.0%	28	14	712	304	0	0	0	0
East South Central	68,536	56,131	22.0%	42,387	29,873	25,534	25,679	0	0	615	579
Alabama	29,903	31,644	-5.5%	9,071	8,698	20,832	22,946	0	0	0	0
Kentucky	5,629	2,252	150.0%	5,582	2,251	47	1	0	0	0	0
Mississippi	26,936	17,534	54.0%	22,281	14,803	4,655	2,732	0	0	0	0
Tennessee	6,067	4,700	29.0%	5,453	4,122	0	0	0	0	615	579
West South Central	215,348	187,278	15.0%	58,551	48,099	104,313	86,070	0	0	52,485	53,108
Arkansas	5,723	3,986	44.0%	1,664	2,113	3,675	1,517	0	0	385	357
Louisiana	47,336	37,338	27.0%	25,131	17,528	4,066	1,496	0	0	18,139	18,314
Oklahoma	20,291	12,576	61.0%	13,708	10,031	6,583	2,508	0	0	0	36
Texas	141,998	133,377	6.5%	18,048	18,427	89,989	80,549	0	0	33,961	34,401
Mountain	51,819	45,700	13.0%	40,021	35,734	11,780	9,950	0	0	19	16
Arizona	17,520	14,117	24.0%	10,410	7,336	7,110	6,781	0	0	0	0
Colorado	9,248	8,701	6.3%	8,096	6,390	1,152	2,311	0	0	0	0
Idaho	1,961	1,296	51.0%	817	700	1,144	596	0	0	0	0
Montana	0	5	-100.0%	0	4	0	1	0	0	0	0
Nevada	13,846	11,422	21.0%	13,846	11,422	0	0	0	0	0	0
New Mexico	4,918	5,288	-7.0%	2,552	5,286	2,366	2	0	0	0	0
Utah	4,312	4,687	-8.0%	4,285	4,566	8	104	0	0	19	16
Wyoming	15	184	-92.0%	15	30	0	154	0	0	0	0
Pacific Contiguous	73,098	69,320	5.4%	30,733	25,756	38,725	40,537	0	0	3,640	3,027
California	52,987	54,846	-3.4%	18,443	16,938	30,903	34,881	0	0	3,640	3,027
Oregon	11,298	9,395	20.0%	4,391	3,979	6,907	5,416	0	0	0	0
Washington	8,813	5,079	74.0%	7,899	4,839	915	240	0	0	0	0
Pacific Noncontiguous	1,374	1,909	-28.0%	1,374	1,909	0	0	0	0	0	0
Alaska	1,374	1,909	-28.0%	1,374	1,909	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	750,192	628,693	19.0%	342,861	279,556	346,015	289,008	749	472	60,567	59,657

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions. Values for 2014 are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 4.9.B. Receipts of Natural Gas Delivered for Electricity Generation by State, (Year-to-Date) November 2015 and 2014
(Million Cubic Feet)

Census Division and State	All Sectors			Electric Power Sector							
				Electric Utilities		Independent Power Producers		Commercial Sector		Industrial Sector	
	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	345,865	305,265	13.0%	2,164	1,877	343,120	298,038	0	0	581	5,349
Connecticut	105,211	87,270	21.0%	0	0	105,211	87,270	0	0	0	0
Maine	16,767	27,505	-39.0%	0	0	16,185	22,155	0	0	581	5,349
Massachusetts	137,944	120,264	15.0%	1,856	1,486	136,088	118,778	0	0	0	0
New Hampshire	40,004	28,264	42.0%	308	391	39,696	27,873	0	0	0	0
Rhode Island	45,939	41,962	9.5%	0	0	45,939	41,962	0	0	0	0
Vermont	0	0	--	0	0	0	0	0	0	0	0
Middle Atlantic	1,021,158	904,343	13.0%	92,484	87,519	926,873	814,814	0	0	1,801	2,009
New Jersey	244,781	200,552	22.0%	0	0	244,781	200,552	0	0	0	0
New York	394,485	369,184	6.9%	92,484	87,519	301,282	280,796	0	0	718	868
Pennsylvania	381,892	334,607	14.0%	0	0	380,809	333,467	0	0	1,083	1,141
East North Central	587,954	399,414	47.0%	248,596	163,528	328,564	228,371	4,775	4,366	6,020	3,149
Illinois	65,700	30,782	113.0%	4,462	3,119	61,185	27,619	0	0	52	44
Indiana	101,391	68,359	48.0%	80,588	48,094	20,803	20,266	0	0	0	0
Michigan	144,625	91,059	59.0%	31,899	23,414	104,065	62,071	4,775	4,366	3,886	1,207
Ohio	187,330	156,288	20.0%	51,268	43,443	135,734	112,103	0	0	328	742
Wisconsin	88,908	52,926	68.0%	80,378	45,459	6,777	6,312	0	0	1,753	1,155
West North Central	120,383	87,681	37.0%	103,070	73,470	16,214	13,316	1,089	763	11	132
Iowa	22,163	14,541	52.0%	22,152	14,504	0	0	0	0	11	38
Kansas	11,443	12,257	-6.6%	11,443	12,257	0	0	0	0	0	0
Minnesota	45,435	25,814	76.0%	38,416	20,071	6,945	5,613	74	50	0	81
Missouri	32,587	29,370	11.0%	22,304	20,953	9,269	7,703	1,015	714	0	0
Nebraska	3,380	3,170	6.6%	3,380	3,156	0	0	0	0	0	14
North Dakota	479	43	NM	479	43	0	0	0	0	0	0
South Dakota	4,896	2,486	97.0%	4,896	2,486	0	0	0	0	0	0
South Atlantic	2,063,051	1,708,390	21.0%	1,666,824	1,413,787	364,251	272,394	0	0	31,976	22,209
Delaware	51,761	48,771	6.1%	0	0	39,180	39,428	0	0	12,581	9,343
District of Columbia	0	0	--	0	0	0	0	0	0	0	0
Florida	1,037,051	946,897	9.5%	988,055	905,781	48,996	40,751	0	0	0	365
Georgia	339,544	272,669	25.0%	216,106	189,259	111,810	76,256	0	0	11,628	7,154
Maryland	34,694	16,934	105.0%	0	0	34,353	16,706	0	0	341	228
North Carolina	236,796	184,369	28.0%	209,211	160,442	27,584	23,812	0	0	0	115
South Carolina	120,184	79,098	52.0%	108,111	70,184	11,486	8,591	0	0	586	324
Virginia	230,309	153,051	50.0%	143,968	86,116	79,500	62,255	0	0	6,840	4,680
West Virginia	12,712	6,600	93.0%	1,372	2,005	11,340	4,595	0	0	0	0
East South Central	766,585	593,576	29.0%	455,781	355,023	304,339	235,030	0	0	6,464	3,523
Alabama	345,739	297,527	16.0%	87,230	86,823	258,509	210,704	0	0	0	0
Kentucky	44,529	26,053	71.0%	37,781	24,527	6,749	1,526	0	0	0	0
Mississippi	306,243	223,894	37.0%	267,162	201,093	39,081	22,800	0	0	0	0
Tennessee	70,073	46,103	52.0%	63,609	42,579	0	0	0	0	6,464	3,523
West South Central	2,683,603	2,371,959	13.0%	768,460	663,054	1,353,670	1,130,300	0	0	561,473	578,605
Arkansas	102,556	67,029	53.0%	28,391	12,804	70,604	52,131	0	0	3,562	2,093
Louisiana	490,549	447,513	9.6%	274,373	227,191	30,815	19,361	0	0	185,361	200,962
Oklahoma	230,850	191,658	20.0%	151,723	131,025	79,127	60,403	0	0	0	230
Texas	1,859,647	1,665,758	12.0%	313,972	292,034	1,173,124	998,405	0	0	372,550	375,320
Mountain	608,178	540,790	12.0%	455,086	397,409	152,584	142,886	0	0	508	495
Arizona	226,142	194,650	16.0%	123,581	99,542	102,561	95,107	0	0	0	0
Colorado	79,576	82,880	-4.0%	63,711	64,500	15,864	18,380	0	0	0	0
Idaho	21,890	15,053	45.0%	12,663	7,556	9,227	7,497	0	0	0	0
Montana	0	48	-100.0%	0	16	0	31	0	0	0	0
Nevada	174,201	137,302	27.0%	174,201	135,646	0	1,655	0	0	0	0
New Mexico	59,704	60,091	-0.6%	35,842	41,360	23,861	18,731	0	0	0	0
Utah	46,558	50,147	-7.2%	44,981	48,512	1,070	1,141	0	0	508	495
Wyoming	108	620	-83.0%	108	276	0	344	0	0	0	0
Pacific Contiguous	825,551	832,964	-0.9%	319,110	304,232	470,968	488,005	0	0	35,473	40,727
California	653,772	688,522	-5.0%	213,654	213,412	404,645	434,383	0	0	35,473	40,727
Oregon	99,720	80,534	24.0%	41,113	31,493	58,607	49,041	0	0	0	0
Washington	72,059	63,909	13.0%	64,344	59,328	7,715	4,581	0	0	0	0
Pacific Noncontiguous	14,462	18,871	-23.0%	14,462	18,871	0	0	0	0	0	0
Alaska	14,462	18,871	-23.0%	14,462	18,871	0	0	0	0	0	0
Hawaii	0	0	--	0	0	0	0	0	0	0	0
U.S. Total	9,036,790	7,763,254	16.0%	4,126,037	3,478,771	4,260,583	3,623,155	5,863	5,130	644,307	656,198

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions. Values for 2014 are final. Values for 2015 are preliminary. See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 4.10.A. Average Cost of Coal Delivered for Electricity Generation by State, November 2015 and 2014
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014
New England	W	W	W	3.57	4.04	W	W
Connecticut	--	--	--	--	--	--	--
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	3.57	4.04	-12.0%	3.57	4.04	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.19	2.53	-13.0%	--	--	2.19	2.53
New Jersey	W	4.24	W	--	--	W	4.24
New York	W	3.01	W	--	--	W	3.01
Pennsylvania	2.13	2.44	-13.0%	--	--	2.13	2.44
East North Central	2.13	2.29	-7.0%	2.22	2.38	1.96	2.12
Illinois	1.91	1.97	-3.0%	2.05	2.03	1.85	1.95
Indiana	W	W	W	2.30	2.51	W	W
Michigan	W	2.58	W	2.31	2.58	W	--
Ohio	W	W	W	2.13	2.13	W	W
Wisconsin	2.13	2.24	-4.9%	2.13	2.24	--	--
West North Central	1.70	1.75	-2.9%	1.70	1.75	--	--
Iowa	1.48	1.69	-12.0%	1.48	1.69	--	--
Kansas	1.73	1.76	-1.7%	1.73	1.76	--	--
Minnesota	1.79	1.90	-5.8%	1.79	1.90	--	--
Missouri	1.87	1.98	-5.6%	1.87	1.98	--	--
Nebraska	1.32	1.38	-4.3%	1.32	1.38	--	--
North Dakota	1.64	1.38	19.0%	1.64	1.38	--	--
South Dakota	2.93	2.09	40.0%	2.93	2.09	--	--
South Atlantic	2.80	3.02	-7.3%	2.86	3.08	2.29	2.65
Delaware	--	W	W	--	--	--	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	3.14	3.22	W	W
Georgia	2.69	3.02	-11.0%	2.69	3.02	--	--
Maryland	2.82	2.85	-1.1%	--	--	2.82	2.85
North Carolina	3.38	3.56	-5.1%	3.38	3.58	--	3.03
South Carolina	3.47	3.63	-4.4%	3.47	3.63	--	--
Virginia	W	3.20	W	2.80	3.15	W	3.79
West Virginia	W	2.35	W	2.37	2.41	W	2.04
East South Central	W	W	W	2.24	2.39	W	W
Alabama	2.37	2.46	-3.7%	2.37	2.46	--	--
Kentucky	2.17	2.29	-5.2%	2.17	2.29	--	--
Mississippi	W	W	W	2.58	3.39	W	W
Tennessee	2.23	2.39	-6.7%	2.23	2.39	--	--
West South Central	2.04	2.08	-1.9%	2.25	2.18	1.79	1.97
Arkansas	W	W	W	2.25	2.45	W	W
Louisiana	W	W	W	3.85	3.20	W	W
Oklahoma	W	W	W	1.98	1.94	W	W
Texas	1.88	1.98	-5.1%	2.07	2.01	1.75	1.96
Mountain	W	1.92	W	1.90	2.00	W	1.26
Arizona	2.05	2.06	-0.5%	2.05	2.06	--	--
Colorado	1.84	1.86	-1.1%	1.84	1.86	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	1.52	W	W
Nevada	W	W	W	2.30	2.58	W	W
New Mexico	2.19	2.56	-14.0%	2.19	2.56	--	--
Utah	1.91	2.09	-8.6%	1.91	2.09	--	--
Wyoming	1.60	W	W	1.60	1.64	--	W
Pacific Contiguous	W	W	W	2.51	2.42	W	W
California	--	--	--	--	--	--	--
Oregon	2.51	2.42	3.7%	2.51	2.42	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	3.57	--	W	W
Alaska	3.57	--	--	3.57	--	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.15	2.29	-6.1%	2.20	2.33	1.97	2.19

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions. Values for 2014 are final. Values for 2015 are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 4.10.B. Average Cost of Coal Delivered for Electricity Generation by State, (Year-to-Date) November 2015 and 2014
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	3.52	W	W	3.87	4.28	3.30	W
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	W	W	W	--	--	W	W
New Hampshire	3.87	4.28	-9.6%	3.87	4.28	--	--
Rhode Island	--	W	W	--	--	--	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.41	2.59	-6.9%	--	3.50	2.41	2.58
New Jersey	3.83	3.92	-2.3%	--	--	3.83	3.92
New York	2.83	3.02	-6.3%	--	--	2.83	3.02
Pennsylvania	2.35	2.51	-6.4%	--	3.50	2.35	2.51
East North Central	2.19	2.32	-5.6%	2.28	2.42	2.03	2.16
Illinois	1.92	1.99	-3.5%	2.02	2.04	1.89	1.98
Indiana	W	W	W	2.32	2.57	W	W
Michigan	W	W	W	2.42	2.60	W	W
Ohio	W	W	W	2.14	2.16	W	W
Wisconsin	2.28	2.31	-1.3%	2.28	2.31	--	--
West North Central	1.72	1.78	-3.4%	1.72	1.78	--	--
Iowa	1.62	1.67	-3.0%	1.62	1.67	--	--
Kansas	1.71	1.79	-4.5%	1.71	1.79	--	--
Minnesota	1.89	1.96	-3.6%	1.89	1.96	--	--
Missouri	1.90	2.00	-5.0%	1.90	2.00	--	--
Nebraska	1.35	1.40	-3.6%	1.35	1.40	--	--
North Dakota	1.55	1.53	1.3%	1.55	1.53	--	--
South Dakota	2.26	2.09	8.1%	2.26	2.09	--	--
South Atlantic	2.94	3.08	-4.5%	2.97	3.13	2.66	2.80
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	3.08	3.31	W	W
Georgia	2.93	3.11	-5.8%	2.93	3.11	--	--
Maryland	2.87	2.98	-3.7%	--	--	2.87	2.98
North Carolina	3.48	3.58	-2.8%	3.48	3.60	--	3.02
South Carolina	3.56	3.63	-1.9%	3.56	3.63	--	--
Virginia	W	3.28	W	2.87	3.21	W	3.88
West Virginia	2.32	2.40	-3.3%	2.37	2.47	2.02	2.08
East South Central	W	W	W	2.33	2.51	W	W
Alabama	2.44	2.71	-10.0%	2.44	2.71	--	--
Kentucky	2.22	2.35	-5.5%	2.22	2.35	--	--
Mississippi	W	W	W	3.08	3.27	W	W
Tennessee	2.39	2.46	-2.8%	2.39	2.46	--	--
West South Central	2.07	2.09	-1.0%	2.19	2.19	1.92	1.96
Arkansas	W	W	W	2.26	2.40	W	W
Louisiana	W	W	W	3.11	2.92	W	W
Oklahoma	W	W	W	1.97	1.97	W	W
Texas	1.98	2.00	-1.0%	2.12	2.09	1.89	1.95
Mountain	W	1.94	W	1.91	1.98	W	1.48
Arizona	2.00	2.10	-4.8%	2.00	2.10	--	--
Colorado	1.80	1.93	-6.7%	1.80	1.93	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	1.84	W	W
Nevada	W	W	W	2.51	2.47	W	W
New Mexico	2.35	2.41	-2.5%	2.35	2.41	--	--
Utah	1.95	2.10	-7.1%	1.95	2.10	--	--
Wyoming	1.65	W	W	1.65	1.57	--	W
Pacific Contiguous	W	W	W	2.39	2.49	W	W
California	--	W	W	--	--	--	W
Oregon	2.39	2.49	-4.0%	2.39	2.49	--	--
Washington	W	W	W	--	--	W	W
Pacific Noncontiguous	W	W	W	1.95	--	W	W
Alaska	1.95	--	--	1.95	--	--	--
Hawaii	W	W	W	--	--	W	W
U.S. Total	2.22	2.34	-5.1%	2.25	2.37	2.12	2.26

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions. Values for 2014 are final. Values for 2015 are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 4.11.A. Average Cost of Petroleum Liquids Delivered for Electricity Generation by State, November 2015 and 2014
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014
New England	W	W	W	14.25	18.19	W	W
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	9.55	W	W	21.60	18.19	9.54	W
New Hampshire	13.16	W	W	13.16	17.90	--	W
Rhode Island	W	--	W	--	--	W	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	7.33	15.97	-54.0%	6.71	11.52	9.47	17.84
New Jersey	10.16	W	W	--	--	10.16	W
New York	7.02	W	W	6.71	11.52	8.65	W
Pennsylvania	11.19	19.26	-42.0%	--	--	11.19	19.26
East North Central	12.15	22.15	-45.0%	12.34	22.16	11.46	22.07
Illinois	11.63	W	W	11.97	22.21	11.37	W
Indiana	12.06	22.27	-46.0%	12.06	22.27	--	--
Michigan	10.97	20.56	-47.0%	10.97	20.56	--	--
Ohio	12.13	22.49	-46.0%	12.67	23.26	11.53	21.32
Wisconsin	13.42	W	W	13.42	21.86	--	W
West North Central	12.12	20.61	-41.0%	12.12	20.61	--	--
Iowa	12.29	20.85	-41.0%	12.29	20.85	--	--
Kansas	11.38	19.60	-42.0%	11.38	19.60	--	--
Minnesota	13.14	21.64	-39.0%	13.14	21.64	--	--
Missouri	11.53	20.20	-43.0%	11.53	20.20	--	--
Nebraska	13.47	20.49	-34.0%	13.47	20.49	--	--
North Dakota	11.18	21.87	-49.0%	11.18	21.87	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	W	19.32	W	10.99	19.71	W	18.87
Delaware	W	--	W	--	--	W	--
District of Columbia	--	--	--	--	--	--	--
Florida	11.89	W	W	11.89	20.15	--	W
Georgia	10.74	W	W	10.74	19.46	--	W
Maryland	10.65	18.09	-41.0%	--	--	10.65	18.09
North Carolina	W	W	W	10.59	18.32	W	W
South Carolina	12.29	18.91	-35.0%	12.29	18.91	--	--
Virginia	W	W	W	10.40	19.99	W	W
West Virginia	11.98	W	W	11.98	19.53	--	W
East South Central	11.49	W	W	11.49	19.53	--	W
Alabama	12.02	W	W	12.02	18.37	--	W
Kentucky	11.70	21.25	-45.0%	11.70	21.25	--	--
Mississippi	--	17.19	--	--	17.19	--	--
Tennessee	10.62	18.91	-44.0%	10.62	18.91	--	--
West South Central	W	18.72	W	11.61	18.71	W	18.73
Arkansas	W	W	W	11.63	--	W	W
Louisiana	W	W	W	--	18.49	W	W
Oklahoma	--	20.06	--	--	20.06	--	--
Texas	11.54	W	W	11.54	17.94	--	W
Mountain	W	W	W	13.22	21.21	W	W
Arizona	13.63	18.95	-28.0%	13.63	18.95	--	--
Colorado	--	21.75	--	--	21.75	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	12.67	23.25	W	W
New Mexico	14.98	24.01	-38.0%	14.98	24.01	--	--
Utah	13.88	W	W	13.88	22.61	--	W
Wyoming	12.29	21.82	-44.0%	12.29	21.82	--	--
Pacific Contiguous	W	W	W	10.66	--	W	W
California	--	--	--	--	--	--	--
Oregon	10.53	--	--	10.53	--	--	--
Washington	W	W	W	11.29	--	W	W
Pacific Noncontiguous	W	W	W	9.01	16.82	W	W
Alaska	15.73	--	--	15.73	--	--	--
Hawaii	W	W	W	9.00	16.82	W	W
U.S. Total	8.92	16.52	-46.0%	8.81	17.71	9.09	15.62

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions. Values for 2014 are final. Values for 2015 are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 4.11.B. Average Cost of Petroleum Liquids Delivered for Electricity Generation by State, (Year-to-Date) November 2015 and 2014 (Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	W	17.95	W	11.49	18.26	W	17.89
Connecticut	W	W	W	--	--	W	W
Maine	W	W	W	--	--	W	W
Massachusetts	11.85	18.08	-34.0%	22.01	19.94	11.81	17.75
New Hampshire	W	W	W	10.54	16.92	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	11.46	20.54	-44.0%	9.23	18.89	13.07	21.07
New Jersey	14.01	23.03	-39.0%	--	--	14.01	23.03
New York	11.02	19.66	-44.0%	9.23	18.89	12.93	20.08
Pennsylvania	13.25	22.44	-41.0%	--	--	13.25	22.44
East North Central	13.86	W	W	13.79	22.70	14.06	W
Illinois	W	22.95	W	13.89	22.95	W	22.96
Indiana	14.02	22.69	-38.0%	14.02	22.69	--	--
Michigan	13.15	21.97	-40.0%	13.15	21.97	--	--
Ohio	13.80	W	W	13.58	23.88	14.05	W
Wisconsin	W	W	W	15.10	21.97	W	W
West North Central	13.08	W	W	13.08	21.87	--	W
Iowa	13.04	21.81	-40.0%	13.04	21.81	--	--
Kansas	12.67	21.69	-42.0%	12.67	21.69	--	--
Minnesota	13.51	W	W	13.51	22.33	--	W
Missouri	13.19	21.47	-39.0%	13.19	21.47	--	--
Nebraska	20.52	22.01	-6.8%	20.52	22.01	--	--
North Dakota	12.83	22.93	-44.0%	12.83	22.93	--	--
South Dakota	12.47	22.70	-45.0%	12.47	22.70	--	--
South Atlantic	12.82	21.99	-42.0%	12.58	22.03	13.64	21.89
Delaware	W	W	W	--	--	W	W
District of Columbia	--	--	--	--	--	--	--
Florida	W	W	W	14.38	22.24	W	W
Georgia	16.27	W	W	17.28	22.50	14.11	W
Maryland	10.78	21.48	-50.0%	--	--	10.78	21.48
North Carolina	W	22.48	W	13.35	22.53	W	20.75
South Carolina	15.02	22.75	-34.0%	15.02	22.75	--	--
Virginia	11.92	21.62	-45.0%	10.74	21.43	17.62	22.45
West Virginia	W	W	W	14.03	22.81	W	W
East South Central	W	W	W	12.88	21.78	W	W
Alabama	W	W	W	13.29	21.64	W	W
Kentucky	13.58	21.94	-38.0%	13.58	21.94	--	--
Mississippi	10.49	20.62	-49.0%	10.49	20.62	--	--
Tennessee	12.66	21.83	-42.0%	12.66	21.83	--	--
West South Central	13.21	20.69	-36.0%	13.09	20.42	13.49	21.09
Arkansas	W	W	W	13.26	22.91	W	W
Louisiana	W	W	W	12.53	19.94	W	W
Oklahoma	13.81	21.39	-35.0%	13.81	21.39	--	--
Texas	W	W	W	13.37	20.76	W	W
Mountain	W	W	W	14.92	23.33	W	W
Arizona	13.95	22.70	-39.0%	13.95	22.70	--	--
Colorado	15.01	23.07	-35.0%	15.01	23.07	--	--
Idaho	--	--	--	--	--	--	--
Montana	W	W	W	--	--	W	W
Nevada	W	W	W	16.98	23.88	W	W
New Mexico	15.74	24.31	-35.0%	15.74	24.31	--	--
Utah	14.84	W	W	14.84	22.54	--	W
Wyoming	14.44	22.86	-37.0%	14.44	22.86	--	--
Pacific Contiguous	W	W	W	11.66	20.84	W	W
California	--	--	--	--	--	--	--
Oregon	11.72	20.84	-44.0%	11.72	20.84	--	--
Washington	W	W	W	11.29	--	W	W
Pacific Noncontiguous	W	W	W	11.09	20.49	W	W
Alaska	8.05	--	--	8.05	--	--	--
Hawaii	W	W	W	11.10	20.49	W	W
U.S. Total	11.62	20.63	-44.0%	11.57	20.90	11.72	20.27

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions. Values for 2014 are final. Values for 2015 are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 4.12.A. Average Cost of Petroleum Coke Delivered for Electricity Generation by State, November 2015 and 2014
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	W	W	W	1.14	1.27	W	W
Illinois	--	--	--	--	--	--	--
Indiana	0.95	0.85	12.0%	0.95	0.85	--	--
Michigan	1.66	1.41	18.0%	1.66	1.41	--	--
Ohio	W	W	W	--	--	W	W
Wisconsin	1.73	1.77	-2.3%	1.73	1.77	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	1.65	1.98	-17.0%	1.65	1.98	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	1.65	1.98	-17.0%	1.65	1.98	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	1.57	1.80	-13.0%	1.57	1.80	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	1.57	1.80	-13.0%	1.57	1.80	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	1.49	1.79	-17.0%	1.49	1.79	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	1.49	1.79	-17.0%	1.49	1.79	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	W	W	W	1.46	1.70	W	W

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions. Values for 2014 are final. Values for 2015 are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 4.12.B. Average Cost of Petroleum Coke Delivered for Electricity Generation by State, (Year-to-Date) November 2015 and 2014
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	--	--	--	--	--	--	--
Connecticut	--	--	--	--	--	--	--
Maine	--	--	--	--	--	--	--
Massachusetts	--	--	--	--	--	--	--
New Hampshire	--	--	--	--	--	--	--
Rhode Island	--	--	--	--	--	--	--
Vermont	--	--	--	--	--	--	--
Middle Atlantic	--	--	--	--	--	--	--
New Jersey	--	--	--	--	--	--	--
New York	--	--	--	--	--	--	--
Pennsylvania	--	--	--	--	--	--	--
East North Central	W	W	W	1.30	1.23	W	W
Illinois	--	--	--	--	--	--	--
Indiana	0.95	0.95	0.0%	0.95	0.95	--	--
Michigan	W	W	W	1.76	1.44	W	W
Ohio	W	W	W	--	--	W	W
Wisconsin	1.67	1.84	-9.2%	1.67	1.84	--	--
West North Central	--	--	--	--	--	--	--
Iowa	--	--	--	--	--	--	--
Kansas	--	--	--	--	--	--	--
Minnesota	--	--	--	--	--	--	--
Missouri	--	--	--	--	--	--	--
Nebraska	--	--	--	--	--	--	--
North Dakota	--	--	--	--	--	--	--
South Dakota	--	--	--	--	--	--	--
South Atlantic	2.17	2.39	-9.2%	2.17	2.39	--	--
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	2.17	2.39	-9.2%	2.17	2.39	--	--
Georgia	--	--	--	--	--	--	--
Maryland	--	--	--	--	--	--	--
North Carolina	--	--	--	--	--	--	--
South Carolina	--	--	--	--	--	--	--
Virginia	--	--	--	--	--	--	--
West Virginia	--	--	--	--	--	--	--
East South Central	1.69	1.77	-4.5%	1.69	1.77	--	--
Alabama	--	--	--	--	--	--	--
Kentucky	1.69	1.77	-4.5%	1.69	1.77	--	--
Mississippi	--	--	--	--	--	--	--
Tennessee	--	--	--	--	--	--	--
West South Central	1.83	1.98	-7.6%	1.83	1.98	--	--
Arkansas	--	--	--	--	--	--	--
Louisiana	1.83	1.98	-7.6%	1.83	1.98	--	--
Oklahoma	--	--	--	--	--	--	--
Texas	--	--	--	--	--	--	--
Mountain	--	--	--	--	--	--	--
Arizona	--	--	--	--	--	--	--
Colorado	--	--	--	--	--	--	--
Idaho	--	--	--	--	--	--	--
Montana	--	--	--	--	--	--	--
Nevada	--	--	--	--	--	--	--
New Mexico	--	--	--	--	--	--	--
Utah	--	--	--	--	--	--	--
Wyoming	--	--	--	--	--	--	--
Pacific Contiguous	--	--	--	--	--	--	--
California	--	--	--	--	--	--	--
Oregon	--	--	--	--	--	--	--
Washington	--	--	--	--	--	--	--
Pacific Noncontiguous	--	--	--	--	--	--	--
Alaska	--	--	--	--	--	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	1.87	1.94	-3.6%	1.80	1.89	2.45	2.48

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions. Values for 2014 are final. Values for 2015 are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 4.13.A. Average Cost of Natural Gas Delivered for Electricity Generation by State, November 2015 and 2014
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	November 2015	November 2014	Percentage Change	November 2015	November 2014	November 2015	November 2014
New England	4.13	W	W	5.29	7.03	4.13	W
Connecticut	5.00	5.05	-1.0%	--	--	5.00	5.05
Maine	W	W	W	--	--	W	W
Massachusetts	3.52	5.51	-36.0%	3.53	5.99	3.52	5.51
New Hampshire	W	W	W	6.81	7.65	W	W
Rhode Island	3.40	5.48	-38.0%	--	--	3.40	5.48
Vermont	--	--	--	--	--	--	--
Middle Atlantic	1.96	4.09	-52.0%	2.83	4.65	1.87	4.01
New Jersey	1.74	4.00	-57.0%	--	--	1.74	4.00
New York	2.61	4.50	-42.0%	2.83	4.65	2.52	4.44
Pennsylvania	1.53	3.67	-58.0%	--	--	1.53	3.67
East North Central	2.35	4.31	-45.0%	2.39	4.40	2.31	4.21
Illinois	W	W	W	3.56	5.52	W	W
Indiana	W	W	W	2.50	4.36	W	W
Michigan	2.48	4.83	-49.0%	2.47	4.87	2.48	4.82
Ohio	1.96	3.66	-46.0%	1.93	3.81	1.98	3.57
Wisconsin	W	W	W	2.57	4.76	W	W
West North Central	W	W	W	3.34	5.08	W	W
Iowa	4.74	5.13	-7.6%	4.74	5.13	--	--
Kansas	3.80	5.31	-28.0%	3.80	5.31	--	--
Minnesota	W	W	W	3.55	5.76	W	W
Missouri	W	W	W	2.56	4.56	W	W
Nebraska	3.20	5.02	-36.0%	3.20	5.02	--	--
North Dakota	2.12	4.99	-58.0%	2.12	4.99	--	--
South Dakota	2.76	3.23	-15.0%	2.76	3.23	--	--
South Atlantic	3.38	5.06	-33.0%	3.54	5.15	2.33	4.44
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	3.85	W	W	3.90	5.34	2.36	W
Georgia	2.57	4.58	-44.0%	2.61	4.58	2.42	4.59
Maryland	2.94	4.55	-35.0%	--	--	2.94	4.55
North Carolina	W	W	W	3.77	5.45	W	W
South Carolina	W	W	W	2.74	4.83	W	W
Virginia	W	W	W	3.16	4.45	W	W
West Virginia	1.77	3.33	-47.0%	1.83	4.17	1.76	3.29
East South Central	2.37	4.40	-46.0%	2.37	4.37	2.37	4.44
Alabama	W	W	W	2.43	4.24	W	W
Kentucky	2.47	W	W	2.47	5.19	--	W
Mississippi	W	W	W	2.33	4.34	W	W
Tennessee	2.29	4.26	-46.0%	2.29	4.26	--	--
West South Central	2.25	4.18	-46.0%	2.37	4.36	2.17	4.06
Arkansas	W	W	W	2.72	5.03	W	W
Louisiana	W	W	W	2.26	4.26	W	W
Oklahoma	W	W	W	2.44	4.57	W	W
Texas	2.22	4.10	-46.0%	2.42	4.26	2.17	4.05
Mountain	W	4.59	W	2.76	4.59	W	4.60
Arizona	W	4.73	W	2.86	4.84	W	4.45
Colorado	W	W	W	2.94	5.02	W	W
Idaho	2.72	4.95	-45.0%	2.72	4.95	--	--
Montana	--	W	W	--	5.57	--	W
Nevada	2.73	4.52	-40.0%	2.73	4.52	--	--
New Mexico	2.50	4.31	-42.0%	2.50	4.31	--	--
Utah	W	W	W	2.46	3.95	W	W
Wyoming	3.98	W	W	3.98	7.87	--	W
Pacific Contiguous	2.76	4.56	-39.0%	3.08	4.70	2.45	4.44
California	2.85	4.70	-39.0%	3.32	4.96	2.51	4.51
Oregon	W	W	W	2.45	3.85	W	W
Washington	W	W	W	3.02	4.65	W	W
Pacific Noncontiguous	5.45	4.96	9.9%	5.45	4.96	--	--
Alaska	5.45	4.96	9.9%	5.45	4.96	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	2.67	4.54	-41.0%	2.97	4.75	2.31	4.27

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions. Values for 2014 are final. Values for 2015 are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 4.13.B. Average Cost of Natural Gas Delivered for Electricity Generation by State, (Year-to-Date) November 2015 and 2014
(Dollars per MMBtu)

Census Division and State	Electric Power Sector			Electric Utilities		Independent Power Producers	
	November 2015 YTD	November 2014 YTD	Percentage Change	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	4.36	6.46	-33.0%	3.93	5.55	4.36	6.47
Connecticut	4.57	6.75	-32.0%	--	--	4.57	6.75
Maine	W	W	W	--	--	W	W
Massachusetts	4.36	6.33	-31.0%	3.77	5.48	4.37	6.34
New Hampshire	W	W	W	4.91	5.83	W	W
Rhode Island	W	W	W	--	--	W	W
Vermont	--	--	--	--	--	--	--
Middle Atlantic	2.98	5.11	-42.0%	3.71	5.42	2.90	5.07
New Jersey	2.95	4.79	-38.0%	--	--	2.95	4.79
New York	3.45	5.33	-35.0%	3.71	5.42	3.36	5.30
Pennsylvania	2.50	5.02	-50.0%	--	--	2.50	5.02
East North Central	2.89	5.26	-45.0%	3.03	5.32	2.79	5.21
Illinois	W	W	W	3.81	6.00	W	W
Indiana	W	W	W	3.01	5.25	W	W
Michigan	3.23	6.78	-52.0%	3.33	6.93	3.20	6.72
Ohio	2.33	4.21	-45.0%	2.47	4.47	2.27	4.11
Wisconsin	W	W	W	3.24	5.34	W	W
West North Central	W	5.65	W	3.48	5.71	W	5.28
Iowa	3.11	6.12	-49.0%	3.11	6.12	--	--
Kansas	3.75	5.58	-33.0%	3.75	5.58	--	--
Minnesota	W	W	W	3.73	5.94	W	W
Missouri	W	W	W	3.32	5.36	W	W
Nebraska	3.72	5.67	-34.0%	3.72	5.67	--	--
North Dakota	2.92	4.12	-29.0%	2.92	4.12	--	--
South Dakota	3.24	5.06	-36.0%	3.24	5.06	--	--
South Atlantic	4.03	5.47	-26.0%	4.17	5.53	2.98	4.95
Delaware	--	--	--	--	--	--	--
District of Columbia	--	--	--	--	--	--	--
Florida	4.35	5.47	-20.0%	4.38	5.49	2.85	4.39
Georgia	3.23	4.94	-35.0%	3.24	4.97	3.20	4.85
Maryland	3.98	5.20	-23.0%	--	--	3.98	5.20
North Carolina	W	W	W	4.77	6.18	W	W
South Carolina	W	W	W	3.43	4.97	W	W
Virginia	3.45	6.03	-43.0%	3.91	6.42	2.18	5.32
West Virginia	W	W	W	2.82	6.02	W	W
East South Central	2.97	4.73	-37.0%	2.98	4.74	2.96	4.73
Alabama	3.03	W	W	3.07	4.64	3.02	W
Kentucky	W	W	W	3.53	5.95	W	W
Mississippi	W	W	W	2.92	4.65	W	W
Tennessee	2.76	4.64	-41.0%	2.76	4.64	--	--
West South Central	2.88	4.64	-38.0%	2.99	4.79	2.80	4.53
Arkansas	W	W	W	3.35	6.79	W	W
Louisiana	W	W	W	2.98	4.65	W	W
Oklahoma	W	W	W	3.05	5.08	W	W
Texas	2.84	4.55	-38.0%	2.93	4.67	2.81	4.51
Mountain	W	5.08	W	3.28	5.13	W	4.76
Arizona	3.34	5.15	-35.0%	3.45	5.39	2.99	4.60
Colorado	3.58	5.25	-32.0%	3.43	5.26	4.37	5.18
Idaho	2.94	W	W	2.94	5.29	--	W
Montana	--	W	W	--	6.26	--	W
Nevada	3.23	W	W	3.23	5.13	--	W
New Mexico	3.15	4.85	-35.0%	3.15	4.85	--	--
Utah	W	W	W	2.96	4.64	W	W
Wyoming	4.95	W	W	4.95	5.94	--	W
Pacific Contiguous	3.20	5.00	-36.0%	3.44	5.12	2.97	4.89
California	3.32	5.12	-35.0%	3.67	5.34	3.07	4.95
Oregon	W	W	W	2.78	4.28	W	W
Washington	W	W	W	3.28	4.93	W	W
Pacific Noncontiguous	5.37	5.03	6.8%	5.37	5.03	--	--
Alaska	5.37	5.03	6.8%	5.37	5.03	--	--
Hawaii	--	--	--	--	--	--	--
U.S. Total	3.31	5.11	-35.0%	3.57	5.22	2.99	4.97

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions. Values for 2014 are final. Values for 2015 are preliminary.
See Technical Notes for a discussion of the sample design for the Form EIA-923.
Totals may not equal sum of components because of independent rounding. Percentage change is calculated before rounding.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 4.14. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Total (All Sectors) by State, November 2015

Census Division and State	Bituminous			Subbituminous			Lignite		
	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	255	1.18	8.3	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	5	0.73	8.1	0	--	--	0	--	--
Massachusetts	144	0.64	9.5	0	--	--	0	--	--
New Hampshire	105	1.89	6.8	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,852	3.08	10.7	18	0.24	5.4	0	--	--
New Jersey	52	1.35	6.5	0	--	--	0	--	--
New York	137	2.13	8.0	18	0.24	5.4	0	--	--
Pennsylvania	1,663	3.22	11.1	0	--	--	0	--	--
East North Central	5,778	3.06	10.0	7,846	0.25	4.9	0	--	--
Illinois	807	3.53	18.3	3,730	0.21	4.7	0	--	--
Indiana	2,493	2.87	8.8	153	0.28	4.8	0	--	--
Michigan	218	2.08	7.5	2,188	0.29	5.0	0	--	--
Ohio	2,190	3.24	9.2	0	--	--	0	--	--
Wisconsin	71	2.63	7.8	1,776	0.25	5.2	0	--	--
West North Central	112	3.43	9.2	8,478	0.28	5.1	1,754	0.86	10.2
Iowa	42	3.50	8.0	1,547	0.25	5.0	0	--	--
Kansas	18	3.68	13.4	1,132	0.33	5.1	0	--	--
Minnesota	0	--	--	1,430	0.37	6.0	0	--	--
Missouri	52	3.29	8.6	3,079	0.23	4.7	0	--	--
Nebraska	0	--	--	1,075	0.30	5.4	0	--	--
North Dakota	0	--	--	89	0.38	4.5	1,754	0.86	10.2
South Dakota	0	--	--	127	0.36	5.8	0	--	--
South Atlantic	7,067	2.23	10.3	964	0.33	5.1	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,425	2.22	8.6	0	--	--	0	--	--
Georgia	584	2.28	8.8	949	0.33	5.2	0	--	--
Maryland	386	2.32	9.9	15	0.20	5.0	0	--	--
North Carolina	954	1.77	9.7	0	--	--	0	--	--
South Carolina	667	1.64	9.1	0	--	--	0	--	--
Virginia	550	1.00	13.3	0	--	--	0	--	--
West Virginia	2,500	2.81	11.6	0	--	--	0	--	--
East South Central	3,572	2.58	9.4	2,360	0.27	5.1	303	0.40	12.9
Alabama	721	1.55	10.0	959	0.24	5.1	0	--	--
Kentucky	2,428	2.98	9.5	1,035	0.31	5.3	0	--	--
Mississippi	19	2.99	8.1	124	0.34	5.4	303	0.40	12.9
Tennessee	404	2.01	8.2	243	0.20	4.4	0	--	--
West South Central	89	2.02	16.5	7,978	0.28	5.1	3,207	0.92	16.0
Arkansas	12	0.76	9.2	982	0.26	5.1	0	--	--
Louisiana	36	2.59	9.8	530	0.25	4.9	349	0.50	15.2
Oklahoma	42	1.88	25.2	1,608	0.25	5.0	0	--	--
Texas	0	--	--	4,859	0.29	5.2	2,857	0.98	16.1
Mountain	2,318	0.61	13.9	6,158	0.53	9.1	0	--	--
Arizona	459	0.58	10.7	1,479	0.59	9.4	0	--	--
Colorado	194	0.47	10.3	1,175	0.34	5.9	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	832	0.73	10.1	0	--	--
Nevada	24	0.52	9.1	68	0.30	6.0	0	--	--
New Mexico	481	0.86	24.7	603	0.73	21.7	0	--	--
Utah	1,160	0.56	12.0	2	0.65	9.4	0	--	--
Wyoming	0	--	--	1,998	0.45	6.8	0	--	--
Pacific Contiguous	76	0.51	9.9	345	0.36	7.5	0	--	--
California	76	0.51	9.9	0	--	--	0	--	--
Oregon	0	--	--	125	0.20	4.3	0	--	--
Washington	0	--	--	220	0.44	9.3	0	--	--
Pacific Noncontiguous	122	0.76	6.5	0	--	--	20	0.19	9.5
Alaska	0	--	--	0	--	--	20	0.19	9.5
Hawaii	122	0.76	6.5	0	--	--	0	--	--
U.S. Total	21,241	2.41	10.4	34,149	0.32	5.8	5,283	0.87	13.8

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 4.15. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Electric Utilties by State, November 2015

	Bituminous			Subbituminous			Lignite		
Census Division and State	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	105	1.89	6.8	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	105	1.89	6.8	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	0	--	--	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	0	--	--	0	--	--	0	--	--
East North Central	3,586	2.88	8.7	5,056	0.26	5.0	0	--	--
Illinois	188	3.13	11.0	960	0.21	4.6	0	--	--
Indiana	2,244	2.82	8.7	153	0.28	4.8	0	--	--
Michigan	199	2.20	7.6	2,188	0.29	5.0	0	--	--
Ohio	893	3.16	8.7	0	--	--	0	--	--
Wisconsin	61	2.59	7.8	1,756	0.26	5.2	0	--	--
West North Central	62	3.44	10.0	8,413	0.28	5.2	1,754	0.86	10.2
Iowa	0	--	--	1,482	0.25	5.0	0	--	--
Kansas	18	3.68	13.4	1,132	0.33	5.1	0	--	--
Minnesota	0	--	--	1,430	0.37	6.0	0	--	--
Missouri	44	3.35	8.6	3,079	0.23	4.7	0	--	--
Nebraska	0	--	--	1,075	0.30	5.4	0	--	--
North Dakota	0	--	--	89	0.38	4.5	1,754	0.86	10.2
South Dakota	0	--	--	127	0.36	5.8	0	--	--
South Atlantic	6,186	2.18	10.2	949	0.33	5.2	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	1,401	2.25	8.6	0	--	--	0	--	--
Georgia	564	2.31	8.6	949	0.33	5.2	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	954	1.77	9.7	0	--	--	0	--	--
South Carolina	651	1.65	9.2	0	--	--	0	--	--
Virginia	480	0.96	14.0	0	--	--	0	--	--
West Virginia	2,138	2.70	11.2	0	--	--	0	--	--
East South Central	3,464	2.64	9.5	2,360	0.27	5.1	0	--	--
Alabama	721	1.55	10.0	959	0.24	5.1	0	--	--
Kentucky	2,428	2.98	9.5	1,035	0.31	5.3	0	--	--
Mississippi	19	2.99	8.1	124	0.34	5.4	0	--	--
Tennessee	296	2.48	8.4	243	0.20	4.4	0	--	--
West South Central	36	2.59	9.8	5,068	0.25	5.1	860	0.99	17.8
Arkansas	0	--	--	785	0.25	5.1	0	--	--
Louisiana	36	2.59	9.8	250	0.23	4.7	349	0.50	15.2
Oklahoma	0	--	--	1,552	0.25	5.0	0	--	--
Texas	0	--	--	2,481	0.26	5.3	510	1.36	19.8
Mountain	2,318	0.61	13.9	5,282	0.50	9.0	0	--	--
Arizona	459	0.58	10.7	1,479	0.59	9.4	0	--	--
Colorado	194	0.47	10.3	1,175	0.34	5.9	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	24	0.52	9.1	24	0.46	8.3	0	--	--
New Mexico	481	0.86	24.7	603	0.73	21.7	0	--	--
Utah	1,160	0.56	12.0	2	0.65	9.4	0	--	--
Wyoming	0	--	--	1,998	0.45	6.8	0	--	--
Pacific Contiguous	0	--	--	125	0.20	4.3	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	125	0.20	4.3	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	20	0.19	9.5
Alaska	0	--	--	0	--	--	20	0.19	9.5
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	15,757	2.23	10.2	27,254	0.32	5.9	2,633	0.89	12.6

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 4.16. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Independent Power Producers by State, November 2015

	Bituminous			Subbituminous			Lignite		
Census Division and State	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	148	0.64	9.5	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	4	0.73	8.1	0	--	--	0	--	--
Massachusetts	144	0.64	9.5	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	1,808	3.12	10.7	18	0.24	5.4	0	--	--
New Jersey	52	1.35	6.5	0	--	--	0	--	--
New York	104	2.27	8.1	18	0.24	5.4	0	--	--
Pennsylvania	1,652	3.23	11.1	0	--	--	0	--	--
East North Central	1,999	3.35	12.5	2,770	0.22	4.7	0	--	--
Illinois	458	3.75	26.7	2,770	0.22	4.7	0	--	--
Indiana	248	3.29	10.1	0	--	--	0	--	--
Michigan	18	0.40	5.7	0	--	--	0	--	--
Ohio	1,275	3.30	9.6	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	0	--	--	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	0	--	--	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	757	2.78	11.1	15	0.20	5.0	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	25	0.92	9.1	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	361	2.35	9.2	15	0.20	5.0	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	45	0.74	8.9	0	--	--	0	--	--
West Virginia	326	3.75	13.9	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	303	0.40	12.9
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	303	0.40	12.9
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	42	1.88	25.2	2,911	0.32	5.2	2,347	0.90	15.3
Arkansas	0	--	--	197	0.27	5.1	0	--	--
Louisiana	0	--	--	280	0.27	5.1	0	--	--
Oklahoma	42	1.88	25.2	56	0.26	4.6	0	--	--
Texas	0	--	--	2,378	0.33	5.2	2,347	0.90	15.3
Mountain	0	--	--	876	0.71	9.8	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	832	0.73	10.1	0	--	--
Nevada	0	--	--	44	0.21	4.7	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	0	--	--	220	0.44	9.3	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	220	0.44	9.3	0	--	--
Pacific Noncontiguous	122	0.76	6.5	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	122	0.76	6.5	0	--	--	0	--	--
U.S. Total	4,875	3.02	11.5	6,810	0.33	5.7	2,650	0.85	15.1

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 4.17. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Commercial Sector by State, November 2015

Census Division and State	Bituminous			Subbituminous			Lignite		
	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	0	--	--	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	0	--	--	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	0	--	--	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	0	--	--	0	--	--	0	--	--
Pennsylvania	0	--	--	0	--	--	0	--	--
East North Central	0	--	--	0	--	--	0	--	--
Illinois	0	--	--	0	--	--	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	--	--	0	--	--	0	--	--
Ohio	0	--	--	0	--	--	0	--	--
Wisconsin	0	--	--	0	--	--	0	--	--
West North Central	8	3.00	8.7	0	--	--	0	--	--
Iowa	0	--	--	0	--	--	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	8	3.00	8.7	0	--	--	0	--	--
Nebraska	0	--	--	0	--	--	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	0	--	--	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	0	--	--	0	--	--	0	--	--
Maryland	0	--	--	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	0	--	--	0	--	--	0	--	--
Virginia	0	--	--	0	--	--	0	--	--
West Virginia	0	--	--	0	--	--	0	--	--
East South Central	0	--	--	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	0	--	--	0	--	--	0	--	--
West South Central	0	--	--	0	--	--	0	--	--
Arkansas	0	--	--	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	0	--	--	0	--	--
Texas	0	--	--	0	--	--	0	--	--
Mountain	0	--	--	0	--	--	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	0	--	--	0	--	--	0	--	--
California	0	--	--	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	8	3.00	8.7	0	--	--	0	--	--

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 4.18. Receipts and Quality of Coal by Rank Delivered for Electricity Generation: Industrial Sector by State, November 2015

Census Division and State	Bituminous			Subbituminous			Lignite		
	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight	Receipts (Thousand Tons)	Average Sulfur Percent by Weight	Average Ash Percent by Weight
New England	1	0.73	8.1	0	--	--	0	--	--
Connecticut	0	--	--	0	--	--	0	--	--
Maine	1	0.73	8.1	0	--	--	0	--	--
Massachusetts	0	--	--	0	--	--	0	--	--
New Hampshire	0	--	--	0	--	--	0	--	--
Rhode Island	0	--	--	0	--	--	0	--	--
Vermont	0	--	--	0	--	--	0	--	--
Middle Atlantic	44	1.71	9.2	0	--	--	0	--	--
New Jersey	0	--	--	0	--	--	0	--	--
New York	33	1.66	7.7	0	--	--	0	--	--
Pennsylvania	12	1.87	14.0	0	--	--	0	--	--
East North Central	194	3.37	8.2	20	0.17	6.7	0	--	--
Illinois	162	3.50	8.0	0	--	--	0	--	--
Indiana	0	--	--	0	--	--	0	--	--
Michigan	0	0.86	9.8	0	--	--	0	--	--
Ohio	22	2.74	9.6	0	--	--	0	--	--
Wisconsin	9	2.90	8.2	20	0.17	6.7	0	--	--
West North Central	42	3.50	8.0	65	0.22	4.4	0	--	--
Iowa	42	3.50	8.0	65	0.22	4.4	0	--	--
Kansas	0	--	--	0	--	--	0	--	--
Minnesota	0	--	--	0	--	--	0	--	--
Missouri	0	--	--	0	--	--	0	--	--
Nebraska	0	--	--	0	--	--	0	--	--
North Dakota	0	--	--	0	--	--	0	--	--
South Dakota	0	--	--	0	--	--	0	--	--
South Atlantic	124	1.45	12.2	0	--	--	0	--	--
Delaware	0	--	--	0	--	--	0	--	--
District of Columbia	0	--	--	0	--	--	0	--	--
Florida	0	--	--	0	--	--	0	--	--
Georgia	20	1.43	12.5	0	--	--	0	--	--
Maryland	26	1.82	22.2	0	--	--	0	--	--
North Carolina	0	--	--	0	--	--	0	--	--
South Carolina	17	1.11	5.7	0	--	--	0	--	--
Virginia	25	2.09	7.9	0	--	--	0	--	--
West Virginia	36	0.93	12.0	0	--	--	0	--	--
East South Central	108	0.83	7.5	0	--	--	0	--	--
Alabama	0	--	--	0	--	--	0	--	--
Kentucky	0	--	--	0	--	--	0	--	--
Mississippi	0	--	--	0	--	--	0	--	--
Tennessee	108	0.83	7.5	0	--	--	0	--	--
West South Central	12	0.76	9.2	0	--	--	0	--	--
Arkansas	12	0.76	9.2	0	--	--	0	--	--
Louisiana	0	--	--	0	--	--	0	--	--
Oklahoma	0	--	--	0	--	--	0	--	--
Texas	0	--	--	0	--	--	0	--	--
Mountain	0	--	--	0	--	--	0	--	--
Arizona	0	--	--	0	--	--	0	--	--
Colorado	0	--	--	0	--	--	0	--	--
Idaho	0	--	--	0	--	--	0	--	--
Montana	0	--	--	0	--	--	0	--	--
Nevada	0	--	--	0	--	--	0	--	--
New Mexico	0	--	--	0	--	--	0	--	--
Utah	0	--	--	0	--	--	0	--	--
Wyoming	0	--	--	0	--	--	0	--	--
Pacific Contiguous	76	0.51	9.9	0	--	--	0	--	--
California	76	0.51	9.9	0	--	--	0	--	--
Oregon	0	--	--	0	--	--	0	--	--
Washington	0	--	--	0	--	--	0	--	--
Pacific Noncontiguous	0	--	--	0	--	--	0	--	--
Alaska	0	--	--	0	--	--	0	--	--
Hawaii	0	--	--	0	--	--	0	--	--
U.S. Total	601	1.93	9.2	85	0.21	4.9	0	--	--

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
NM = Not meaningful due to large relative standard error or excessive percentage change.
W = Withheld to avoid disclosure of individual company data.

Notes:
Starting in January 2013, there may be a shift in the continuity of Chapter 4 Tables, due to changes in the sample design of Form EIA-923 and the imputation process.
See the Instrument Design History section of the Form EIA-923 Technical Notes for a more detailed explanation of these changes.
See Glossary for definitions. Values for 2015 are preliminary. Values for 2014 are final. See Technical Notes for a discussion of the sample design for the Form EIA-923.

Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table 5.1. Sales of Electricity to Ultimate Customers:
Total by End-Use Sector, 2005 - November 2015 (Thousand Megawatthours)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2005	1,359,227	1,275,079	1,019,156	7,506	3,660,969
2006	1,351,520	1,299,744	1,011,298	7,358	3,669,919
2007	1,392,241	1,336,315	1,027,832	8,173	3,764,561
2008	1,380,662	1,336,133	1,009,516	7,653	3,733,965
2009	1,364,758	1,306,853	917,416	7,768	3,596,795
2010	1,445,708	1,330,199	971,221	7,712	3,754,841
2011	1,422,801	1,328,057	991,316	7,672	3,749,846
2012	1,374,515	1,327,101	985,714	7,320	3,694,650
2013	1,394,812	1,337,079	985,352	7,625	3,724,868
2014	1,407,208	1,352,158	997,576	7,758	3,764,700
Year 2013					
January	131,785	107,729	80,505	664	320,683
February	113,114	101,016	76,692	659	291,480
March	112,097	104,011	80,474	644	297,226
April	95,541	101,395	80,216	630	277,782
May	95,192	108,683	84,897	627	289,398
June	117,982	117,410	84,170	638	320,201
July	143,855	127,311	86,887	649	358,701
August	138,065	127,063	87,806	645	353,580
Sept	121,419	118,408	83,025	626	323,478
October	98,893	111,907	82,980	591	294,370
November	97,904	103,384	79,632	574	281,494
December	128,966	108,762	78,067	679	316,475
Year 2014					
January	146,511	113,866	80,149	712	341,238
February	128,475	104,353	75,413	700	308,941
March	114,233	106,968	80,539	648	302,388
April	92,290	102,459	80,505	640	275,894
May	95,727	109,666	85,383	646	291,421
June	118,049	118,423	85,711	609	322,792
July	137,028	125,434	88,417	645	351,524
August	135,830	125,603	89,808	642	351,883
Sept	120,741	120,049	85,489	628	326,907
October	98,038	113,023	84,994	625	296,680
November	99,486	104,245	81,044	637	285,413
December	120,801	108,070	80,123	626	309,620
Year 2015					
January	137,528	110,807	77,086	670	326,091
February	123,774	105,391	74,395	702	304,262
March	116,862	107,645	77,204	682	302,392
April	89,923	103,857	77,891	623	272,294
May	94,860	109,012	80,603	611	285,086
June	119,922	118,956	83,565	612	323,054
July	145,413	128,289	85,205	650	359,557
August	144,085	128,233	85,704	627	358,649
Sept	124,992	121,934	82,141	617	329,684
October	99,083	112,791	80,903	637	293,414
November	92,390	103,935	76,357	606	273,287
Year to Date					
2013	1,265,846	1,228,316	907,285	6,946	3,408,393
2014	1,286,408	1,244,088	917,454	7,131	3,455,081
2015	1,288,832	1,250,848	881,053	7,037	3,427,770
Rolling 12 Months Ending in November					
2014	1,415,374	1,352,850	995,521	7,810	3,771,555
2015	1,409,632	1,358,919	961,175	7,663	3,737,389

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.
Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data.
Values for 2014 and prior years are final. Values for 2015 are preliminary estimates based on a cutoff model sample. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications. Sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.
Sources: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report;
Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

Table 5.2. Revenue from Sales of Electricity to Ultimate Customers: Total by End-Use Sector, 2005 - November 2015 (Million Dollars)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2005	128,393	110,522	58,445	643	298,003
2006	140,582	122,914	62,308	702	326,506
2007	148,295	128,903	65,712	792	343,703
2008	155,496	137,036	70,231	820	363,583
2009	157,044	132,747	62,670	828	353,289
2010	166,778	135,554	65,772	814	368,918
2011	166,714	135,927	67,606	803	371,049
2012	163,280	133,898	65,761	747	363,687
2013	169,131	137,188	67,934	805	375,058
2014	176,178	145,253	70,855	810	393,096
Year 2013					
January	15,100	10,527	5,233	70	30,929
February	13,153	10,158	5,105	70	28,485
March	13,016	10,421	5,345	66	28,849
April	11,397	10,099	5,279	65	26,839
May	11,805	11,112	5,732	66	28,715
June	14,793	12,501	6,102	69	33,465
July	18,193	13,624	6,473	71	38,361
August	17,294	13,581	6,474	69	37,418
Sept	15,192	12,468	5,998	68	33,727
October	12,225	11,504	5,700	62	29,492
November	11,843	10,365	5,294	60	27,563
December	15,120	10,829	5,197	69	31,215
Year 2014					
January	17,075	11,790	5,596	78	34,539
February	15,338	11,142	5,370	73	31,922
March	13,996	11,390	5,632	68	31,087
April	11,365	10,715	5,451	65	27,596
May	12,300	11,555	5,833	65	29,753
June	15,337	12,974	6,335	65	34,710
July	17,943	14,014	6,742	69	38,767
August	17,708	13,876	6,748	64	38,396
Sept	15,639	13,399	6,299	69	35,406
October	12,352	12,239	6,007	64	30,663
November	12,417	10,967	5,470	65	28,920
December	14,707	11,192	5,372	66	31,336
Year 2015					
January	16,631	11,376	5,114	71	33,193
February	15,202	11,166	5,135	75	31,578
March	14,433	11,380	5,259	69	31,141
April	11,363	10,716	5,139	61	27,279
May	12,285	11,354	5,405	60	29,105
June	15,507	12,859	5,930	63	34,360
July	18,884	14,137	6,339	68	39,428
August	18,633	13,976	6,277	64	38,949
Sept	16,330	13,336	5,898	64	35,627
October	12,616	12,067	5,564	64	30,311
November	11,761	10,764	5,057	59	27,641
Year to Date					
2013	154,011	126,360	62,737	736	343,843
2014	161,471	134,061	65,483	745	361,760
2015	163,645	133,132	61,118	718	358,612
Rolling 12 Months Ending in November					
2014	176,591	144,890	70,680	814	392,975
2015	178,351	144,324	66,490	783	389,948

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.
Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data.
Values for 2014 and prior years are final. Values for 2015 are preliminary estimates based on a cutoff model sample. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications. Sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.
Sources: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report; Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

Table 5.3. Average Price of Electricity to Ultimate Customers:
Total by End-Use Sector, 2005 - November 2015 (Cents per Kilowatthour)

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2005	9.45	8.67	5.73	8.57	8.14
2006	10.40	9.46	6.16	9.54	8.90
2007	10.65	9.65	6.39	9.70	9.13
2008	11.26	10.26	6.96	10.71	9.74
2009	11.51	10.16	6.83	10.66	9.82
2010	11.54	10.19	6.77	10.56	9.83
2011	11.72	10.24	6.82	10.46	9.90
2012	11.88	10.09	6.67	10.21	9.84
2013	12.13	10.26	6.89	10.55	10.07
2014	12.52	10.74	7.10	10.45	10.44
Year 2013					
January	11.46	9.77	6.50	10.53	9.64
February	11.63	10.06	6.66	10.56	9.77
March	11.61	10.02	6.64	10.25	9.71
April	11.93	9.96	6.58	10.28	9.66
May	12.40	10.22	6.75	10.50	9.92
June	12.54	10.65	7.25	10.76	10.45
July	12.65	10.70	7.45	10.97	10.69
August	12.53	10.69	7.37	10.77	10.58
Sept	12.51	10.53	7.22	10.88	10.43
October	12.36	10.28	6.87	10.46	10.02
November	12.10	10.03	6.65	10.49	9.79
December	11.72	9.96	6.66	10.20	9.86
Year 2014					
January	11.65	10.35	6.98	10.93	10.12
February	11.94	10.68	7.12	10.41	10.33
March	12.25	10.65	6.99	10.43	10.28
April	12.31	10.46	6.77	10.23	10.00
May	12.85	10.54	6.83	10.06	10.21
June	12.99	10.96	7.39	10.60	10.75
July	13.09	11.17	7.62	10.68	11.03
August	13.04	11.05	7.51	10.02	10.91
Sept	12.95	11.16	7.37	11.02	10.83
October	12.60	10.83	7.07	10.27	10.34
November	12.48	10.52	6.75	10.20	10.13
December	12.17	10.36	6.70	10.48	10.12
Year 2015					
January	12.09	10.27	6.63	10.59	10.18
February	12.28	10.59	6.90	10.70	10.38
March	12.35	10.57	6.81	10.17	10.30
April	12.64	10.32	6.60	9.81	10.02
May	12.95	10.42	6.71	9.87	10.21
June	12.93	10.81	7.10	10.25	10.64
July	12.99	11.02	7.44	10.45	10.97
August	12.93	10.90	7.32	10.20	10.86
Sept	13.06	10.94	7.18	10.32	10.81
October	12.73	10.70	6.88	10.01	10.33
November	12.73	10.36	6.62	9.69	10.11
Year to Date					
2013	12.17	10.29	6.91	10.59	10.09
2014	12.55	10.78	7.14	10.44	10.47
2015	12.70	10.64	6.94	10.20	10.46
Rolling 12 Months Ending in November					
2014	12.48	10.71	7.10	10.42	10.42
2015	12.65	10.62	6.92	10.22	10.43

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.
Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data.
Values for 2014 and prior years are final. Values for 2015 are preliminary estimates based on a cutoff model sample. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications. Sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.
Sources: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report;
Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

Table 5.4.A. Sales of Electricity to Ultimate Customers by End-Use Sector, by State, November 2015 and 2014 (Thousand Megawatthours)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	3,221	3,486	4,028	4,187	1,446	1,617	42	42	8,737	9,331
Connecticut	837	925	963	1,003	258	282	13	11	2,072	2,222
Maine	355	373	297	312	268	302	0	0	919	988
Massachusetts	1,350	1,463	1,984	2,046	585	689	27	28	3,946	4,226
New Hampshire	309	328	343	335	157	157	0	0	809	820
Rhode Island	216	227	285	328	64	70	2	2	567	627
Vermont	154	170	155	163	116	115	0	0	424	448
Middle Atlantic	8,686	9,508	12,007	12,104	5,650	5,880	307	342	26,650	27,834
New Jersey	1,790	1,987	2,884	2,898	596	538	24	20	5,293	5,443
New York	3,370	3,598	5,792	5,874	1,439	1,516	224	258	10,826	11,246
Pennsylvania	3,526	3,924	3,330	3,333	3,615	3,825	59	64	10,530	11,146
East North Central	12,741	14,677	13,982	14,390	14,770	16,388	43	50	41,536	45,505
Illinois	3,151	3,623	3,827	3,970	3,220	3,698	38	45	10,236	11,336
Indiana	2,079	2,584	1,785	1,866	3,507	3,999	2	2	7,372	8,450
Michigan	2,425	2,591	2,962	2,958	2,392	2,679	0	0	7,779	8,229
Ohio	3,468	4,095	3,578	3,687	3,771	4,132	3	3	10,820	11,916
Wisconsin	1,618	1,785	1,830	1,910	1,880	1,880	0	0	5,328	5,574
West North Central	6,753	7,959	7,942	8,062	7,112	7,737	3	4	21,811	23,762
Iowa	867	1,035	971	990	1,790	1,794	0	0	3,628	3,819
Kansas	814	925	1,180	1,167	852	925	0	0	2,847	3,018
Minnesota	1,572	1,765	1,812	1,831	1,602	1,892	2	2	4,988	5,491
Missouri	2,146	2,643	2,318	2,415	1,259	1,404	1	2	5,724	6,464
Nebraska	626	716	764	795	807	834	0	0	2,196	2,345
North Dakota	395	495	519	495	577	645	0	0	1,491	1,635
South Dakota	333	380	379	369	225	243	0	0	937	991
South Atlantic	23,590	24,993	23,947	23,849	11,671	11,950	113	107	59,321	60,900
Delaware	316	319	354	340	172	199	0	0	842	858
District of Columbia	124	132	650	669	12	25	32	27	819	853
Florida	9,132	7,772	7,762	7,147	1,410	1,350	8	7	18,311	16,276
Georgia	3,514	4,114	3,502	3,526	2,540	2,567	13	13	9,568	10,219
Maryland	1,675	2,082	2,474	2,328	329	317	46	43	4,524	4,770
North Carolina	3,350	3,990	3,544	3,639	2,319	2,392	1	1	9,213	10,022
South Carolina	1,786	2,057	1,541	1,629	2,546	2,475	0	0	5,873	6,160
Virginia	2,918	3,506	3,541	3,919	1,326	1,499	14	16	7,798	8,939
West Virginia	776	1,023	579	653	1,017	1,128	0	0	2,372	2,803
East South Central	7,136	8,459	6,600	6,765	7,949	8,736	0	0	21,686	23,961
Alabama	1,967	2,378	1,667	1,703	2,629	2,677	0	0	6,263	6,759
Kentucky	1,629	2,025	1,379	1,465	2,286	2,728	0	0	5,293	6,218
Mississippi	1,117	1,217	1,066	1,084	1,316	1,356	0	0	3,499	3,656
Tennessee	2,424	2,839	2,488	2,514	1,719	1,975	0	0	6,631	7,328
West South Central	12,534	13,588	14,677	14,687	13,635	14,565	17	17	40,863	42,856
Arkansas	1,028	1,171	912	933	1,263	1,396	0	0	3,202	3,501
Louisiana	1,918	2,046	1,944	1,950	2,679	2,910	1	1	6,542	6,907
Oklahoma	1,293	1,558	1,492	1,635	1,447	1,479	0	0	4,231	4,672
Texas	8,296	8,813	10,330	10,168	8,246	8,780	16	16	26,888	27,776
Mountain	6,355	6,305	7,242	7,367	6,824	6,596	11	10	20,432	20,279
Arizona	1,875	1,842	2,122	2,198	1,218	1,141	0	0	5,215	5,181
Colorado	1,417	1,399	1,612	1,672	1,278	1,233	5	5	4,313	4,309
Idaho	712	738	507	514	493	506	0	0	1,712	1,757
Montana	383	398	407	401	354	336	0	0	1,144	1,135
Nevada	601	558	691	683	1,161	1,098	1	1	2,453	2,339
New Mexico	471	459	703	702	622	626	0	0	1,796	1,787
Utah	685	681	888	870	822	783	5	4	2,400	2,338
Wyoming	212	230	312	327	876	874	0	0	1,400	1,431
Pacific Contiguous	10,965	10,114	12,999	12,335	6,875	7,164	69	66	30,907	29,679
California	6,437	5,873	9,270	8,829	3,934	3,902	67	63	19,707	18,667
Oregon	1,597	1,601	1,360	1,308	938	1,021	2	2	3,897	3,932
Washington	2,931	2,640	2,368	2,198	2,003	2,242	0	0	7,302	7,080
Pacific Noncontiguous	408	395	511	498	425	412	0	0	1,343	1,306
Alaska	182	183	238	236	107	111	0	0	527	530
Hawaii	227	213	273	262	317	301	0	0	817	776
U.S. Total	92,390	99,486	103,935	104,245	76,357	81,044	606	637	273,287	285,413

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values for 2014 are final. Values for 2015 are preliminary estimates based on a cutoff model sample.
See Technical Notes for a discussion of the sample design for the Form EIA-826.
Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.
Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report.

Table 5.4.B. Sales of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through November 2015 and 2014 (Thousand Megawatthours)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	43,646	43,040	48,966	48,768	16,747	17,557	529	510	109,889	109,875
Connecticut	11,906	11,618	11,987	11,837	3,097	3,222	180	156	27,170	26,833
Maine	4,256	4,216	3,666	3,641	3,097	3,108	0	0	11,019	10,965
Massachusetts	18,535	18,360	23,888	23,992	6,721	7,306	324	330	49,468	49,987
New Hampshire	4,161	4,119	4,167	4,080	1,810	1,811	0	0	10,138	10,010
Rhode Island	2,885	2,808	3,402	3,356	733	819	26	25	7,046	7,008
Vermont	1,904	1,918	1,856	1,863	1,288	1,291	0	0	5,048	5,073
Middle Atlantic	124,062	120,599	146,374	145,032	66,056	67,933	3,567	3,666	340,058	337,230
New Jersey	27,040	25,656	35,545	35,109	6,564	6,903	277	281	69,426	67,948
New York	46,879	45,792	70,556	70,236	16,084	16,627	2,581	2,620	136,100	135,276
Pennsylvania	50,142	49,151	40,273	39,687	43,408	44,403	709	764	134,533	134,006
East North Central	167,447	170,553	169,133	167,840	173,786	184,409	539	596	510,905	523,399
Illinois	41,026	41,963	46,352	46,342	38,627	40,828	480	536	126,485	129,669
Indiana	29,531	30,553	22,279	22,176	41,306	45,072	19	18	93,136	97,819
Michigan	30,366	30,406	35,500	34,340	27,514	29,842	4	4	93,384	94,593
Ohio	47,341	47,792	43,385	43,211	44,478	46,774	36	38	135,241	137,814
Wisconsin	19,183	19,839	21,617	21,771	21,860	21,894	0	0	62,659	63,504
West North Central	92,052	96,755	93,983	92,391	80,680	85,783	41	41	266,756	274,970
Iowa	12,269	13,001	11,053	11,302	19,424	18,811	0	0	42,746	43,115
Kansas	12,326	12,547	14,398	14,173	9,955	10,570	0	0	36,679	37,289
Minnesota	19,362	20,607	21,471	20,917	18,732	21,067	22	21	59,587	62,612
Missouri	31,178	32,464	28,416	28,191	14,483	16,007	19	20	74,096	76,682
Nebraska	8,576	9,030	8,736	8,734	9,455	9,850	0	0	26,767	27,614
North Dakota	4,260	4,768	5,509	4,895	6,170	6,761	0	0	15,939	16,424
South Dakota	4,081	4,337	4,400	4,178	2,462	2,718	0	0	10,942	11,233
South Atlantic	330,531	325,515	286,420	283,141	131,674	130,583	1,245	1,239	749,870	740,478
Delaware	4,504	4,242	3,966	3,891	2,128	2,269	0	0	10,598	10,402
District of Columbia	2,297	1,893	7,611	7,870	245	219	318	305	10,471	10,287
Florida	112,613	108,105	87,428	85,854	15,487	15,230	88	87	215,615	209,277
Georgia	52,525	52,567	43,428	43,044	29,447	29,348	156	151	125,557	125,110
Maryland	25,207	25,039	27,794	27,338	3,533	3,528	494	504	57,029	56,410
North Carolina	52,934	53,052	44,334	43,851	25,308	24,996	8	8	122,584	121,906
South Carolina	27,874	27,992	20,099	20,077	27,259	26,968	0	0	75,232	75,036
Virginia	42,136	41,874	44,559	43,974	16,224	16,274	181	184	103,101	102,306
West Virginia	10,441	10,750	7,202	7,242	12,042	11,751	0	0	29,684	29,744
East South Central	110,372	111,514	82,327	82,872	94,290	98,580	1	1	286,990	292,968
Alabama	29,693	30,251	20,947	21,203	31,475	31,713	0	0	82,116	83,168
Kentucky	24,342	24,890	17,339	17,652	27,559	29,608	0	0	69,240	72,149
Mississippi	17,480	17,471	12,884	13,101	14,993	15,042	0	0	45,358	45,614
Tennessee	38,856	38,902	31,157	30,917	20,263	22,217	1	1	90,277	92,037
West South Central	201,005	198,074	182,214	181,426	152,907	163,923	177	171	536,302	543,593
Arkansas	16,951	16,880	11,233	11,076	14,740	15,328	0	0	42,923	43,284
Louisiana	29,294	29,115	23,122	22,666	29,600	31,833	11	11	82,027	83,625
Oklahoma	21,093	21,380	18,515	18,905	15,589	16,312	0	0	55,197	56,597
Texas	133,668	130,699	129,343	128,779	92,978	100,450	166	160	356,155	360,087
Mountain	87,109	86,092	86,654	86,431	77,890	77,810	123	121	251,776	250,454
Arizona	30,728	30,104	27,137	27,137	13,480	13,456	6	0	71,350	70,697
Colorado	16,843	16,471	18,475	18,432	14,214	13,880	58	58	49,590	48,840
Idaho	7,103	7,279	5,655	5,603	8,227	8,444	0	0	20,985	21,325
Montana	4,264	4,434	4,510	4,488	3,965	3,865	0	0	12,738	12,787
Nevada	11,445	11,117	8,790	8,711	12,914	12,630	8	8	33,158	32,466
New Mexico	6,122	6,038	8,212	8,267	6,824	6,896	0	0	21,158	21,200
Utah	8,233	8,193	10,303	10,149	8,807	9,138	51	56	27,394	27,535
Wyoming	2,372	2,457	3,573	3,645	9,460	9,501	0	0	15,404	15,602
Pacific Contiguous	128,372	130,062	149,317	150,729	82,431	86,238	816	785	360,935	367,814
California	81,667	82,086	107,503	109,545	47,640	48,877	789	759	237,598	241,267
Oregon	16,317	16,612	14,758	14,672	11,237	11,665	22	21	42,335	42,970
Washington	30,388	31,365	27,056	26,512	23,554	25,697	5	4	81,002	83,577
Pacific Noncontiguous	4,235	4,205	5,461	5,458	4,592	4,636	0	0	14,288	14,299
Alaska	1,822	1,832	2,543	2,512	1,212	1,245	0	0	5,577	5,590
Hawaii	2,413	2,372	2,918	2,946	3,380	3,391	0	0	8,711	8,710
U.S. Total	1,288,832	1,286,408	1,250,848	1,244,088	881,053	917,454	7,037	7,131	3,427,770	3,455,081

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values for 2014 are final. Values for 2015 are preliminary estimates based on a cutoff model sample.
See Technical Notes for a discussion of the sample design for the Form EIA-826.
Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.
Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report.

Table 5.5.A. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State, November 2015 and 2014 (Million Dollars)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	593	628	587	586	173	178	4	4	1,357	1,397
Connecticut	167	185	147	152	34	35	2	2	349	374
Maine	55	59	39	39	24	25	0	0	118	123
Massachusetts	247	258	288	280	76	81	2	3	613	621
New Hampshire	56	60	49	48	20	18	0	0	125	125
Rhode Island	40	38	41	43	8	8	0	0	91	90
Vermont	27	29	23	24	12	12	0	0	61	65
Middle Atlantic	1,405	1,528	1,581	1,569	421	416	35	39	3,440	3,552
New Jersey	280	310	375	353	62	55	2	2	720	719
New York	617	700	888	898	104	95	27	32	1,636	1,725
Pennsylvania	508	518	317	318	255	267	5	5	1,085	1,108
East North Central	1,694	1,901	1,381	1,450	1,006	1,136	3	4	4,085	4,491
Illinois	416	457	338	363	198	243	3	4	954	1,067
Indiana	242	301	171	191	234	277	0	0	648	768
Michigan	356	372	312	322	166	199	0	0	834	893
Ohio	451	528	365	371	269	277	0	0	1,085	1,177
Wisconsin	230	243	194	203	140	140	0	0	564	585
West North Central	769	849	702	708	459	483	0	0	1,930	2,039
Iowa	99	107	80	77	93	85	0	0	271	269
Kansas	104	113	116	118	62	71	0	0	283	302
Minnesota	189	207	166	174	114	122	0	0	470	504
Missouri	237	267	198	198	73	80	0	0	508	545
Nebraska	66	72	64	65	55	58	0	0	186	196
North Dakota	37	43	44	42	46	50	0	0	127	135
South Dakota	37	40	33	33	16	17	0	0	86	89
South Atlantic	2,774	2,897	2,232	2,309	717	778	9	9	5,733	5,993
Delaware	46	45	38	35	14	15	0	0	98	94
District of Columbia	17	17	78	79	1	2	3	3	99	101
Florida	1,067	941	743	727	114	105	1	1	1,925	1,774
Georgia	367	441	317	368	130	161	1	1	814	971
Maryland	251	275	263	240	27	28	4	4	545	545
North Carolina	382	424	297	306	134	143	0	0	813	874
South Carolina	226	258	155	170	143	152	0	0	524	580
Virginia	335	402	289	330	91	106	1	1	716	839
West Virginia	83	95	53	53	64	66	0	0	200	215
East South Central	790	901	672	695	455	490	0	0	1,916	2,085
Alabama	225	264	177	186	145	159	0	0	548	609
Kentucky	174	206	130	137	123	144	0	0	427	487
Mississippi	129	142	110	118	84	84	0	0	323	344
Tennessee	261	289	254	252	102	103	0	0	618	645
West South Central	1,363	1,504	1,134	1,204	713	843	1	1	3,211	3,551
Arkansas	104	114	75	75	76	82	0	0	255	271
Louisiana	174	182	164	166	140	150	0	0	478	498
Oklahoma	133	151	106	121	68	80	0	0	307	353
Texas	952	1,056	790	842	429	531	1	1	2,171	2,429
Mountain	713	706	673	685	401	394	1	1	1,788	1,786
Arizona	212	204	202	206	67	68	0	0	482	479
Colorado	164	163	158	163	87	87	1	1	409	413
Idaho	67	72	38	40	28	29	0	0	134	141
Montana	42	41	41	39	17	19	0	0	100	99
Nevada	76	76	62	65	60	51	0	0	199	192
New Mexico	56	53	69	69	36	39	0	0	161	161
Utah	73	72	73	73	47	45	0	0	194	191
Wyoming	23	24	29	29	57	57	0	0	109	111
Pacific Contiguous	1,562	1,395	1,694	1,635	630	650	6	5	3,892	3,686
California	1,117	998	1,373	1,339	482	488	5	5	2,977	2,831
Oregon	171	169	120	116	58	61	0	0	349	346
Washington	275	227	201	180	90	101	0	0	566	508
Pacific Noncontiguous	98	110	109	127	83	103	0	0	291	340
Alaska	37	36	42	42	17	17	0	0	96	95
Hawaii	62	74	67	85	66	86	0	0	195	245
U.S. Total	11,761	12,417	10,764	10,967	5,057	5,470	59	65	27,641	28,920

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values for 2014 are final. Values for 2015 are preliminary estimates based on a cutoff model sample.
See Technical Notes for a discussion of the sample design for the Form EIA-826.
Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.
Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report.

Table 5.5.B. Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through November 2015 and 2014 (Million Dollars)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	8,488	7,621	7,589	7,156	2,040	2,080	56	52	18,174	16,909
Connecticut	2,498	2,291	1,918	1,839	404	416	25	20	4,844	4,565
Maine	664	642	482	460	280	278	0	0	1,427	1,380
Massachusetts	3,674	3,150	3,757	3,515	895	933	27	29	8,353	7,627
New Hampshire	773	718	624	584	230	216	0	0	1,627	1,518
Rhode Island	555	482	539	486	102	105	5	4	1,200	1,077
Vermont	325	337	269	272	130	132	0	0	724	741
Middle Atlantic	20,003	19,840	19,445	19,916	4,925	5,200	422	451	44,795	45,406
New Jersey	4,324	4,053	4,678	4,648	727	793	29	29	9,758	9,523
New York	8,762	9,226	10,900	11,402	1,049	1,099	337	363	21,048	22,090
Pennsylvania	6,917	6,562	3,868	3,865	3,149	3,308	56	59	13,989	13,793
East North Central	21,598	21,621	16,762	16,830	11,971	13,066	40	42	50,370	51,558
Illinois	5,144	5,004	4,137	4,291	2,455	2,795	34	36	11,771	12,126
Indiana	3,307	3,507	2,130	2,208	2,757	3,148	2	2	8,197	8,864
Michigan	4,386	4,414	3,768	3,741	1,974	2,299	0	0	10,128	10,454
Ohio	5,991	5,975	4,335	4,241	3,077	3,172	3	3	13,406	13,392
Wisconsin	2,770	2,721	2,391	2,348	1,707	1,653	0	0	6,869	6,722
West North Central	10,638	10,834	8,736	8,606	5,566	5,810	4	4	24,945	25,254
Iowa	1,473	1,468	1,011	990	1,171	1,083	0	0	3,656	3,541
Kansas	1,517	1,536	1,440	1,445	736	826	0	0	3,693	3,807
Minnesota	2,393	2,488	2,054	2,071	1,341	1,427	2	2	5,791	5,989
Missouri	3,448	3,494	2,572	2,529	907	1,027	2	2	6,928	7,052
Nebraska	937	950	781	766	720	741	0	0	2,437	2,457
North Dakota	420	442	486	433	512	515	0	0	1,418	1,389
South Dakota	450	456	393	372	180	190	0	0	1,022	1,019
South Atlantic	39,049	38,348	27,301	27,460	8,631	8,857	103	104	75,084	74,769
Delaware	606	565	407	409	177	195	0	0	1,190	1,169
District of Columbia	295	242	912	964	22	18	29	27	1,259	1,251
Florida	13,255	12,858	8,456	8,468	1,292	1,205	8	8	23,011	22,540
Georgia	6,078	6,178	4,257	4,481	1,709	1,968	8	11	12,052	12,637
Maryland	3,488	3,416	3,074	3,069	306	320	42	43	6,910	6,848
North Carolina	6,006	5,926	3,861	3,849	1,623	1,633	1	1	11,491	11,408
South Carolina	3,470	3,498	2,037	2,064	1,634	1,705	0	0	7,141	7,268
Virginia	4,801	4,658	3,678	3,576	1,133	1,120	15	15	9,627	9,369
West Virginia	1,049	1,007	619	580	735	692	0	0	2,403	2,279
East South Central	11,927	12,027	8,446	8,578	5,710	6,101	0	0	26,083	26,706
Alabama	3,507	3,486	2,294	2,290	1,932	1,966	0	0	7,733	7,742
Kentucky	2,453	2,536	1,611	1,664	1,493	1,698	0	0	5,557	5,899
Mississippi	1,977	1,978	1,368	1,409	1,002	997	0	0	4,347	4,384
Tennessee	3,990	4,026	3,173	3,215	1,282	1,440	0	0	8,446	8,681
West South Central	22,108	22,083	14,431	15,019	8,508	10,000	10	9	45,057	47,111
Arkansas	1,673	1,611	930	893	908	926	0	0	3,511	3,431
Louisiana	2,711	2,794	1,991	2,063	1,605	1,933	1	1	6,307	6,790
Oklahoma	2,128	2,166	1,405	1,538	823	959	0	0	4,356	4,664
Texas	15,597	15,511	10,105	10,524	5,172	6,183	9	8	30,883	32,227
Mountain	10,397	10,105	8,505	8,385	5,133	5,237	12	13	24,046	23,740
Arizona	3,779	3,606	2,860	2,769	855	876	1	0	7,495	7,250
Colorado	2,027	2,018	1,822	1,870	1,009	1,044	6	6	4,863	4,938
Idaho	712	711	445	437	549	543	0	0	1,706	1,691
Montana	470	454	462	434	209	213	0	0	1,140	1,101
Nevada	1,464	1,438	818	826	890	912	1	1	3,173	3,176
New Mexico	776	746	864	852	430	460	0	0	2,069	2,057
Utah	908	875	907	874	553	560	5	6	2,373	2,315
Wyoming	261	258	327	325	639	629	0	0	1,227	1,211
Pacific Contiguous	18,348	17,757	20,672	20,669	7,667	7,903	71	70	46,759	46,399
California	13,877	13,279	17,171	17,267	5,938	6,085	69	68	37,054	36,698
Oregon	1,745	1,742	1,303	1,286	683	700	2	2	3,733	3,730
Washington	2,726	2,736	2,199	2,116	1,046	1,118	0	0	5,972	5,971
Pacific Noncontiguous	1,089	1,237	1,245	1,445	966	1,228	0	0	3,300	3,909
Alaska	368	352	454	431	181	197	0	0	1,003	980
Hawaii	721	884	791	1,014	786	1,031	0	0	2,297	2,929
U.S. Total	163,645	161,471	133,132	134,061	61,118	65,483	718	745	358,612	361,760

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values for 2014 are final. Values for 2015 are preliminary estimates based on a cutoff model sample.
See Technical Notes for a discussion of the sample design for the Form EIA-826.
Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.
Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report.

Table 5.6.A. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State, November 2015 and 2014 (Cents per Kilowatthour)

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	18.43	18.02	14.59	14.00	11.94	11.02	8.78	10.66	15.53	14.97
Connecticut	20.01	20.02	15.23	15.18	13.01	12.40	11.43	14.07	16.86	16.84
Maine	15.55	15.75	13.18	12.57	8.78	8.19	--	--	12.81	12.43
Massachusetts	18.32	17.61	14.52	13.68	12.96	11.70	6.68	8.96	15.54	14.69
New Hampshire	18.15	18.18	14.39	14.20	12.66	11.33	--	--	15.49	15.24
Rhode Island	18.63	16.68	14.54	13.19	13.25	11.96	18.33	15.00	15.97	14.32
Vermont	17.66	17.09	14.59	14.70	9.99	10.03	--	--	14.45	14.40
Middle Atlantic	16.17	16.07	13.16	12.96	7.44	7.07	11.33	11.53	12.91	12.76
New Jersey	15.64	15.59	13.01	12.17	10.45	10.16	10.42	10.44	13.60	13.22
New York	18.30	19.45	15.33	15.29	7.20	6.24	12.21	12.55	15.11	15.34
Pennsylvania	14.40	13.20	9.53	9.54	7.05	6.97	8.35	7.76	10.30	9.94
East North Central	13.30	12.95	9.88	10.08	6.81	6.93	7.63	8.35	9.83	9.87
Illinois	13.19	12.62	8.83	9.15	6.15	6.56	7.18	7.95	9.32	9.41
Indiana	11.65	11.63	9.60	10.24	6.67	6.92	10.30	11.65	8.79	9.09
Michigan	14.68	14.38	10.55	10.87	6.92	7.43	11.64	11.66	10.72	10.86
Ohio	13.00	12.89	10.19	10.07	7.14	6.72	11.92	12.39	10.03	9.88
Wisconsin	14.19	13.59	10.60	10.62	7.44	7.43	--	--	10.58	10.50
West North Central	11.38	10.66	8.83	8.78	6.45	6.24	8.61	8.37	8.85	8.58
Iowa	11.42	10.34	8.21	7.83	5.18	4.73	--	--	7.48	7.05
Kansas	12.79	12.25	9.85	10.11	7.29	7.64	--	--	9.92	10.01
Minnesota	12.05	11.72	9.14	9.51	7.14	6.47	9.54	9.24	9.42	9.17
Missouri	11.04	10.09	8.56	8.21	5.77	5.67	7.38	7.08	8.88	8.43
Nebraska	10.53	10.09	8.44	8.22	6.86	6.98	--	--	8.46	8.35
North Dakota	9.31	8.65	8.42	8.43	8.00	7.78	--	--	8.49	8.24
South Dakota	10.97	10.42	8.81	8.88	6.91	6.82	--	--	9.12	8.97
South Atlantic	11.76	11.59	9.32	9.68	6.15	6.51	7.91	8.48	9.66	9.84
Delaware	14.51	13.97	10.70	10.19	8.07	7.49	--	--	11.59	10.97
District of Columbia	13.71	12.72	12.03	11.88	9.18	7.02	9.23	9.56	12.13	11.79
Florida	11.69	12.11	9.57	10.17	8.10	7.81	9.19	9.67	10.51	10.90
Georgia	10.44	10.72	9.05	10.45	5.12	6.26	4.37	5.73	8.51	9.50
Maryland	14.99	13.19	10.63	10.30	8.27	8.69	7.88	8.39	12.04	11.44
North Carolina	11.41	10.63	8.37	8.41	5.77	6.00	8.15	7.80	8.82	8.72
South Carolina	12.65	12.53	10.05	10.47	5.61	6.14	--	--	8.92	9.42
Virginia	11.48	11.46	8.16	8.42	6.84	7.05	7.60	8.55	9.18	9.39
West Virginia	10.73	9.33	9.12	8.17	6.25	5.88	--	--	8.42	7.67
East South Central	11.07	10.65	10.18	10.27	5.72	5.61	7.58	7.45	8.84	8.70
Alabama	11.46	11.09	10.63	10.95	5.52	5.94	--	--	8.74	9.01
Kentucky	10.69	10.17	9.45	9.38	5.39	5.28	--	--	8.08	7.84
Mississippi	11.55	11.66	10.29	10.93	6.38	6.17	--	--	9.22	9.41
Tennessee	10.78	10.18	10.23	10.03	5.96	5.23	7.58	7.45	9.32	8.80
West South Central	10.87	11.07	7.73	8.20	5.23	5.79	5.57	5.59	7.86	8.29
Arkansas	10.15	9.72	8.20	8.08	6.00	5.86	8.90	11.94	7.96	7.74
Louisiana	9.05	8.91	8.44	8.49	5.22	5.15	7.56	8.60	7.30	7.21
Oklahoma	10.26	9.70	7.09	7.43	4.73	5.43	--	--	7.25	7.55
Texas	11.48	11.98	7.64	8.28	5.20	6.04	5.43	5.37	8.08	8.75
Mountain	11.22	11.20	9.29	9.30	5.88	5.97	9.80	10.55	8.75	8.81
Arizona	11.29	11.08	9.54	9.39	5.53	5.97	7.96	--	9.23	9.24
Colorado	11.58	11.64	9.78	9.74	6.81	7.03	9.96	10.86	9.49	9.58
Idaho	9.39	9.79	7.59	7.78	5.76	5.64	--	--	7.81	8.01
Montana	10.85	10.25	10.10	9.83	4.93	5.53	--	--	8.75	8.70
Nevada	12.71	13.61	8.98	9.56	5.20	4.63	8.51	8.95	8.10	8.21
New Mexico	11.83	11.55	9.88	9.77	5.77	6.22	--	--	8.97	8.98
Utah	10.71	10.63	8.20	8.38	5.73	5.73	9.95	10.40	8.07	8.15
Wyoming	10.99	10.63	9.22	8.99	6.55	6.56	--	--	7.82	7.77
Pacific Contiguous	14.25	13.79	13.03	13.25	9.16	9.08	8.18	8.37	12.59	12.42
California	17.36	17.00	14.81	15.16	12.24	12.52	8.14	8.33	15.11	15.16
Oregon	10.68	10.56	8.84	8.85	6.18	6.01	9.25	9.31	8.95	8.81
Washington	9.37	8.61	8.47	8.20	4.51	4.49	9.58	9.09	7.75	7.18
Pacific Noncontiguous	24.09	27.84	21.42	25.54	19.50	25.03	--	--	21.63	26.08
Alaska	20.28	19.70	17.72	17.82	15.78	15.62	--	--	18.21	18.01
Hawaii	27.16	34.84	24.64	32.49	20.76	28.50	--	--	23.83	31.58
U.S. Total	12.73	12.48	10.36	10.52	6.62	6.75	9.69	10.20	10.11	10.13

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values for 2014 are final. Values for 2015 are preliminary estimates based on a cutoff model sample.
See Technical Notes for a discussion of the sample design for the Form EIA-826.
Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.
Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report.

Table 5.6.B. Average Price of Electricity to Ultimate Customers by End-Use Sector, by State, Year-to-Date through November 2015 and 2014 (Cents per Kilowatthour)

	Residential		Commercial		Industrial		Transportation		All Sectors	
Census Division and State	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD	November 2015 YTD	November 2014 YTD
New England	19.45	17.71	15.50	14.67	12.18	11.85	10.59	10.28	16.54	15.39
Connecticut	20.98	19.72	16.00	15.53	13.03	12.91	13.78	12.80	17.83	17.01
Maine	15.61	15.23	13.15	12.64	9.05	8.94	--	--	12.95	12.59
Massachusetts	19.82	17.16	15.73	14.65	13.31	12.77	8.23	8.75	16.88	15.26
New Hampshire	18.57	17.44	14.98	14.31	12.69	11.93	--	--	16.04	15.17
Rhode Island	19.24	17.18	15.83	14.49	13.86	12.81	18.04	14.64	17.03	15.37
Vermont	17.07	17.56	14.50	14.58	10.11	10.25	--	--	14.35	14.61
Middle Atlantic	16.12	16.45	13.28	13.73	7.46	7.65	11.83	12.29	13.17	13.46
New Jersey	15.99	15.80	13.16	13.24	11.08	11.48	10.31	10.47	14.06	14.01
New York	18.69	20.15	15.45	16.23	6.52	6.61	13.07	13.84	15.47	16.33
Pennsylvania	13.79	13.35	9.60	9.74	7.25	7.45	7.95	7.67	10.40	10.29
East North Central	12.90	12.68	9.91	10.03	6.89	7.09	7.35	6.97	9.86	9.85
Illinois	12.54	11.93	8.93	9.26	6.36	6.85	7.12	6.76	9.31	9.35
Indiana	11.20	11.48	9.56	9.96	6.68	6.98	9.97	10.26	8.80	9.06
Michigan	14.44	14.52	10.61	10.89	7.17	7.70	11.43	9.23	10.85	11.05
Ohio	12.65	12.50	9.99	9.81	6.92	6.78	8.58	8.08	9.91	9.72
Wisconsin	14.44	13.71	11.06	10.79	7.81	7.55	--	--	10.96	10.58
West North Central	11.56	11.20	9.30	9.31	6.90	6.77	9.07	8.91	9.35	9.18
Iowa	12.01	11.29	9.15	8.76	6.03	5.76	--	--	8.55	8.21
Kansas	12.31	12.24	10.00	10.19	7.39	7.82	--	--	10.07	10.21
Minnesota	12.36	12.07	9.57	9.90	7.16	6.78	9.56	9.83	9.72	9.57
Missouri	11.06	10.76	9.05	8.97	6.26	6.42	8.50	7.92	9.35	9.20
Nebraska	10.93	10.52	8.94	8.76	7.61	7.52	--	--	9.11	8.90
North Dakota	9.86	9.26	8.82	8.84	8.29	7.62	--	--	8.89	8.46
South Dakota	11.02	10.52	8.93	8.90	7.29	7.00	--	--	9.34	9.07
South Atlantic	11.81	11.78	9.53	9.70	6.55	6.78	8.25	8.41	10.01	10.10
Delaware	13.46	13.32	10.26	10.51	8.30	8.61	--	--	11.23	11.24
District of Columbia	12.86	12.81	11.99	12.24	8.82	8.24	9.28	8.74	12.02	12.16
Florida	11.77	11.89	9.67	9.86	8.34	7.91	8.92	9.21	10.67	10.77
Georgia	11.57	11.75	9.80	10.41	5.80	6.71	5.37	7.14	9.60	10.10
Maryland	13.84	13.64	11.06	11.23	8.67	9.07	8.42	8.54	12.12	12.14
North Carolina	11.35	11.17	8.71	8.78	6.41	6.53	7.89	7.86	9.37	9.36
South Carolina	12.45	12.50	10.13	10.28	6.00	6.32	--	--	9.49	9.69
Virginia	11.39	11.12	8.25	8.13	6.98	6.88	8.13	8.22	9.34	9.16
West Virginia	10.05	9.37	8.59	8.01	6.11	5.89	--	--	8.10	7.66
East South Central	10.81	10.79	10.26	10.35	6.06	6.19	8.18	8.62	9.09	9.12
Alabama	11.81	11.52	10.95	10.80	6.14	6.20	--	--	9.42	9.31
Kentucky	10.08	10.19	9.29	9.43	5.42	5.73	--	--	8.03	8.18
Mississippi	11.31	11.32	10.62	10.76	6.68	6.63	--	--	9.58	9.61
Tennessee	10.27	10.35	10.18	10.40	6.33	6.48	8.18	8.62	9.36	9.43
West South Central	11.00	11.15	7.92	8.28	5.56	6.10	5.53	5.42	8.40	8.67
Arkansas	9.87	9.55	8.28	8.06	6.16	6.04	10.64	11.43	8.18	7.93
Louisiana	9.25	9.60	8.61	9.10	5.42	6.07	8.32	9.32	7.69	8.12
Oklahoma	10.09	10.13	7.59	8.14	5.28	5.88	--	--	7.89	8.24
Texas	11.67	11.87	7.81	8.17	5.56	6.16	5.33	5.15	8.67	8.95
Mountain	11.94	11.74	9.81	9.70	6.59	6.73	10.00	10.54	9.55	9.48
Arizona	12.30	11.98	10.54	10.20	6.34	6.51	9.45	--	10.50	10.26
Colorado	12.03	12.25	9.86	10.15	7.10	7.52	10.12	10.85	9.81	10.11
Idaho	10.02	9.77	7.86	7.79	6.67	6.43	--	--	8.13	7.93
Montana	11.02	10.24	10.24	9.66	5.26	5.52	--	--	8.95	8.61
Nevada	12.80	12.93	9.30	9.48	6.89	7.22	9.18	9.30	9.57	9.78
New Mexico	12.67	12.35	10.52	10.30	6.30	6.67	--	--	9.78	9.70
Utah	11.02	10.68	8.81	8.61	6.28	6.13	10.05	10.40	8.66	8.41
Wyoming	11.02	10.50	9.16	8.90	6.75	6.62	--	--	7.97	7.76
Pacific Contiguous	14.29	13.65	13.84	13.71	9.30	9.16	8.75	8.93	12.95	12.61
California	16.99	16.18	15.97	15.76	12.46	12.45	8.74	8.93	15.60	15.21
Oregon	10.69	10.49	8.83	8.77	6.08	6.00	9.16	9.21	8.82	8.68
Washington	8.97	8.72	8.13	7.98	4.44	4.35	8.76	8.53	7.37	7.14
Pacific Noncontiguous	25.71	29.41	22.80	26.47	21.05	26.49	--	--	23.10	27.34
Alaska	20.19	19.21	17.86	17.17	14.92	15.82	--	--	17.98	17.54
Hawaii	29.87	37.28	27.10	34.41	23.24	30.40	--	--	26.37	33.63
U.S. Total	12.70	12.55	10.64	10.78	6.94	7.14	10.20	10.44	10.46	10.47

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values for 2014 are final. Values for 2015 are preliminary estimates based on a cutoff model sample.
See Technical Notes for a discussion of the sample design for the Form EIA-826.
Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.
Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report.

Table 5.7. Number of Ultimate Customers Served by Sector: 2008 - November 2015

Period	Residential	Commercial	Industrial	Transportation	All Sectors
Annual Totals					
2008	125,037,870	17,582,277	774,817	726	143,395,691
2009	125,208,777	17,562,150	757,497	703	143,529,126
2010	125,717,767	17,674,167	747,691	238	144,139,862
2011	126,143,072	17,637,928	727,889	92	144,508,982
2012	126,832,252	17,728,903	732,344	83	145,293,583
2013	127,776,941	17,679,466	831,734	74	146,288,214
2014	128,680,294	17,853,836	839,154	79	147,373,362
Year 2013					
January	127,595,060	17,595,375	820,869	73	146,011,377
February	126,911,590	17,526,676	807,361	72	145,245,699
March	127,694,574	17,647,058	814,884	73	146,156,589
April	126,863,523	17,950,153	826,221	72	145,639,969
May	128,031,040	17,701,109	836,614	73	146,568,836
June	127,665,705	17,623,026	841,448	72	146,130,251
July	127,940,694	17,727,832	853,955	73	146,522,554
August	128,138,737	17,697,816	856,327	72	146,692,952
Sept	127,680,228	17,603,069	837,614	72	146,120,983
October	128,616,444	17,739,281	844,120	70	147,199,915
November	127,563,046	17,603,224	816,115	80	145,982,465
December	128,622,650	17,738,970	825,278	85	147,186,983
Year 2014					
January	128,080,045	17,756,185	824,418	82	146,660,730
February	127,760,935	17,694,926	810,164	79	146,266,104
March	128,398,293	17,795,435	817,663	79	147,011,470
April	128,347,095	17,795,240	829,796	80	146,972,211
May	128,428,131	17,834,341	840,580	84	147,103,136
June	128,562,601	17,810,020	838,886	77	147,211,584
July	129,055,781	17,937,858	865,715	78	147,859,432
August	128,924,140	17,889,944	856,377	77	147,670,538
Sept	128,788,358	17,922,008	856,589	78	147,567,033
October	129,521,707	17,993,992	860,902	76	148,376,677
November	128,640,689	17,827,317	824,992	76	147,293,074
December	129,655,750	17,988,765	843,760	76	148,488,351
Year 2015					
January	129,207,574	17,884,787	793,142	78	147,885,581
February	128,861,851	17,816,605	787,273	77	147,465,806
March	129,889,272	17,936,078	801,180	78	148,626,608
April	129,640,247	17,919,243	801,753	78	148,361,321
May	129,598,937	17,671,690	806,532	79	148,077,238
June	129,855,023	18,013,203	827,401	79	148,695,706
July	130,230,265	18,065,856	836,449	79	149,132,649
August	129,611,819	17,982,244	824,884	78	148,419,025
Sept	129,899,522	18,025,213	826,132	78	148,750,945
October	130,285,470	18,064,291	826,417	76	149,176,254
November	129,790,058	17,975,671	801,397	76	148,567,202
Rolling 12 Months Ending in November					
2014	128,594,202	17,833,020	837,613	79	147,264,914
2015	129,710,482	17,945,304	814,693	78	148,470,557

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors. NA = Not available. See Glossary for definitions.
Geographic coverage is the 50 States and the District of Columbia. Values include energy service provider (power marketer) data.
Values for 2014 and prior years are final. Values for 2015 are preliminary estimates based on a cutoff model sample. See Technical Notes for a discussion of the sample design for the Form EIA-826. Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule. Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications. Sales and net generation may not correspond exactly for a particular month for a variety of reasons (i.e., sales data may include purchases of electricity from nonutilities or imported electricity). Net generation is for the calendar month while sales and associated revenue accumulate from bills collected for periods of time (28 to 35 days) that vary dependent upon customer class and consumption occurring in and outside the calendar month.
Sources: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report;
Form EIA-861, Annual Electric Power Industry Report; and Form EIA-861S, Annual Electric Power Industry Report (Short Form).

Table 5.8. Number of Ultimate Customers Served by Sector by State:
November 2015 and 2014

Census Division and State	Residential		Commercial		Industrial		Transportation		All Sectors	
	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	6,318,905	6,258,378	873,181	869,691	26,257	28,130	6	5	7,218,349	7,156,204
Connecticut	1,471,765	1,466,038	150,008	158,991	4,361	4,735	3	2	1,626,137	1,629,766
Maine	710,155	707,071	92,896	92,063	3,059	3,033	0	0	806,110	802,167
Massachusetts	2,778,536	2,729,944	408,942	401,470	13,445	14,934	2	NM	3,200,925	3,146,350
New Hampshire	605,989	606,742	106,480	106,562	3,268	3,345	0	0	715,737	716,649
Rhode Island	440,199	438,134	61,202	58,060	1,907	1,859	1	1	503,309	498,054
Vermont	312,261	310,449	53,653	52,545	217	224	0	0	366,131	363,218
Middle Atlantic	15,901,212	15,819,452	2,267,862	2,250,939	43,184	44,118	18	17	18,212,276	18,114,526
New Jersey	3,506,010	3,477,365	513,909	515,601	12,118	12,291	6	6	4,032,043	4,005,263
New York	7,084,147	7,050,435	1,061,158	1,045,355	7,571	7,803	6	6	8,152,882	8,103,599
Pennsylvania	5,311,055	5,291,652	692,795	689,983	23,495	24,024	6	5	6,027,351	6,005,664
East North Central	19,859,435	19,730,069	2,455,205	2,438,108	51,938	62,054	7	NM	22,366,585	22,230,239
Illinois	5,201,502	5,154,036	602,413	601,921	5,499	6,094	3	3	5,809,417	5,762,054
Indiana	2,793,731	2,791,007	346,295	349,255	17,470	18,131	1	1	3,157,497	3,158,394
Michigan	4,307,329	4,272,761	538,608	522,051	5,578	13,218	1	NM	4,851,516	4,808,032
Ohio	4,902,905	4,883,654	618,459	619,355	18,806	19,163	2	2	5,540,172	5,522,174
Wisconsin	2,653,968	2,628,611	349,430	345,526	4,585	5,448	0	0	3,007,983	2,979,585
West North Central	9,298,826	9,239,379	1,422,730	1,403,158	111,102	123,714	2	2	10,832,660	10,766,253
Iowa	1,362,350	1,352,875	235,955	225,870	6,674	7,175	0	0	1,604,979	1,585,920
Kansas	1,247,921	1,234,600	231,523	227,137	25,541	26,770	0	0	1,504,985	1,488,507
Minnesota	2,345,189	2,354,145	282,569	286,614	7,807	9,755	1	1	2,635,566	2,650,515
Missouri	2,746,148	2,725,962	373,707	371,946	8,483	10,328	1	1	3,128,339	3,108,237
Nebraska	835,909	819,597	156,704	152,677	52,167	57,034	0	0	1,044,780	1,029,308
North Dakota	370,666	365,774	70,806	68,772	7,573	8,863	0	0	449,045	443,409
South Dakota	390,643	386,426	71,466	70,142	2,857	3,789	0	0	464,966	460,357
South Atlantic	27,128,860	26,785,085	3,716,906	3,656,555	78,010	79,684	11	11	30,923,787	30,521,335
Delaware	415,165	409,100	51,901	52,348	1,137	866	0	0	468,203	462,314
District of Columbia	251,672	242,978	25,831	26,462	1	1	1	1	277,505	269,442
Florida	9,183,509	9,042,414	1,211,624	1,196,405	20,175	19,165	2	2	10,415,310	10,257,986
Georgia	4,221,345	4,165,846	570,528	556,429	17,872	20,249	1	1	4,809,746	4,742,525
Maryland	2,263,560	2,239,200	248,271	248,844	8,770	8,806	5	5	2,520,606	2,496,855
North Carolina	4,390,221	4,333,905	681,524	659,332	10,018	10,328	1	1	5,081,764	5,003,566
South Carolina	2,200,423	2,169,386	355,724	351,427	4,420	4,564	0	0	2,560,567	2,525,377
Virginia	3,341,085	3,319,443	429,232	424,026	3,760	3,651	1	1	3,774,078	3,747,121
West Virginia	861,880	862,813	142,271	141,282	11,857	12,054	0	0	1,016,008	1,016,149
East South Central	8,243,670	8,144,379	1,368,570	1,363,929	25,205	27,533	1	1	9,637,446	9,535,842
Alabama	2,202,502	2,178,820	364,103	362,529	8,125	7,266	0	0	2,574,730	2,548,615
Kentucky	1,959,179	1,940,149	296,145	297,744	8,001	7,425	0	0	2,263,325	2,245,318
Mississippi	1,286,331	1,268,113	234,074	231,304	7,645	11,529	0	0	1,528,050	1,510,946
Tennessee	2,795,658	2,757,297	474,248	472,352	1,434	1,313	1	1	3,271,341	3,230,963
West South Central	15,327,013	15,226,079	2,186,743	2,190,493	188,804	178,283	6	6	17,702,566	17,594,861
Arkansas	1,360,766	1,373,828	187,740	190,145	36,217	36,394	2	2	1,584,725	1,600,369
Louisiana	2,027,978	2,033,505	286,846	298,646	18,564	19,591	1	1	2,333,389	2,351,743
Oklahoma	1,734,868	1,719,587	279,198	276,923	17,979	18,163	0	0	2,032,045	2,014,673
Texas	10,203,401	10,099,159	1,432,959	1,424,779	116,044	104,135	3	3	11,752,407	11,628,076
Mountain	9,435,430	9,318,934	1,353,758	1,359,679	86,742	93,859	4	3	10,875,934	10,772,475
Arizona	2,696,179	2,676,093	313,858	313,000	6,646	7,579	1	0	3,016,684	2,996,672
Colorado	2,235,397	2,203,947	354,324	360,860	14,166	17,512	1	1	2,603,888	2,582,320
Idaho	705,981	694,802	105,746	104,931	27,552	27,011	0	0	839,279	826,744
Montana	495,133	487,276	105,847	103,413	6,658	9,290	0	0	607,638	599,979
Nevada	1,129,623	1,111,164	160,491	160,689	NM	3,514	1	1	1,293,287	1,275,368
New Mexico	882,993	871,132	137,143	140,386	8,604	9,076	0	0	1,028,740	1,020,594
Utah	1,020,895	1,008,058	118,012	118,128	10,455	9,584	1	1	1,149,363	1,135,771
Wyoming	269,229	266,462	58,337	58,272	9,489	10,293	0	0	337,055	335,027
Pacific Contiguous	17,563,671	17,407,620	2,219,171	2,182,450	188,055	185,615	21	23	19,970,918	19,775,708
California	12,928,699	12,815,152	1,615,267	1,594,249	137,803	133,528	13	13	14,681,782	14,542,942
Oregon	1,702,061	1,676,379	233,070	228,622	22,942	22,472	2	4	1,958,075	1,927,477
Washington	2,932,911	2,916,089	370,834	359,579	27,310	29,615	6	6	3,331,061	3,305,289
Pacific Noncontiguous	713,036	711,314	111,545	112,315	2,100	2,002	0	0	826,681	825,631
Alaska	284,198	284,939	50,588	51,652	NM	NM	0	0	336,108	337,873
Hawaii	428,838	426,375	60,957	60,663	778	720	0	0	490,573	487,758
U.S. Total	129,790,058	128,640,689	17,975,671	17,827,317	801,397	824,992	76	76	148,567,202	147,293,074

See Technical notes for additional information on the Commercial, Industrial, and Transportation sectors.
Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.
Notes: - See Glossary for definitions. - Values for 2014 are final. Values for 2015 are preliminary estimates based on a cutoff model sample.
NM = Not Meaningful due to large relative standard error or excessive percentage change.
See Technical Notes for a discussion of the sample design for the Form EIA-826.
Utilities and energy service providers may classify commercial and industrial customers based on either NAICS codes or demands or usage falling within specified limits by rate schedule.
Changes from year to year in consumer counts, sales and revenues, particularly involving the commercial and industrial consumer sectors, may result from respondent implementation of changes in the definitions of consumers, and reclassifications.
Totals may not equal sum of components because of independent rounding.
Source: U.S. Energy Information Administration, Form EIA-826, Monthly Electric Sales and Revenue Report with State Distributions Report.

Table 6.1. Electric Generating Summer Capacity Changes (MW), October 2015 to November 2015

		As of End of October 2015	Activity During November 2015 as Reported to EIA		As of End of November 2015	Net Change in Capacity - Current Month and Prior Periods			Changes in and Total Net Summer Capacity -- Outlook Based on Reports to EIA							
									Planned Capacity Additions		Planned Capacity Reductions		Planned Net Change		Planned Total Net Summer	
Technology	Capacity Source	Total In-Service Capacity	Actual Capacity Additions	Actual Capacity Reductions	Total In-Service Capacity	Current Month	Year to Date	Past 12 Months	Next Month	Next 12 Months	Next Month	Next 12 Months	Next Month	Next 12 Months	At End of Next Month	At End of Next 12 Months
..... Wind (Summer Capacity)	Utility Scale Facilities	69,629.1	597.7	0.0	70,226.8	597.7	5,995.3	8,246.4	2,757.0	5,856.9	25.3	25.3	2,731.7	5,831.6	72,958.5	76,058.4
..... *Solar Photovoltaic*	*Utility Scale Facilities*	*10,054.1*	*408.2*	*0.0*	*10,462.3*	*408.2*	*1,805.7*	*2,457.0*	*1,263.7*	*7,402.6*	*0.0*	*0.0*	*1,263.7*	*7,402.6*	*11,726.0*	*17,864.9*
..... *Solar Thermal without Energy Storage*	*Utility Scale Facilities*	*1,371.3*	*0.0*	*0.0*	*1,371.3*	*0.0*	*0.0*	*250.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*1,371.3*	*1,371.3*
..... *Solar Thermal with Energy Storage*	*Utility Scale Facilities*	*295.4*	*110.0*	*0.0*	*405.4*	*110.0*	*110.0*	*110.0*	*15.0*	*15.0*	*0.0*	*0.0*	*15.0*	*15.0*	*420.4*	*420.4*
..... Solar Subtotal	Utility Scale Facilities	11,720.8	518.2	0.0	12,239.0	518.2	1,915.7	2,817.0	1,278.7	7,417.6	0.0	0.0	1,278.7	7,417.6	13,517.7	19,656.6
..... Conventional Hydroelectric	Utility Scale Facilities	79,711.3	2.4	0.0	79,713.7	2.4	36.4	44.1	30.8	395.3	0.0	11.7	30.8	383.6	79,744.5	80,097.3
..... *Wood/Wood Waste Biomass*	*Utility Scale Facilities*	*8,409.3*	*144.1*	*0.0*	*8,553.4*	*144.1*	*185.3*	*185.3*	*0.0*	*65.0*	*0.0*	*13.5*	*0.0*	*51.5*	*8,553.4*	*8,604.9*
..... *Landfill Gas*	*Utility Scale Facilities*	*2,116.6*	*0.0*	*0.0*	*2,116.6*	*0.0*	*3.6*	*7.4*	*0.0*	*55.3*	*0.0*	*10.0*	*0.0*	*45.3*	*2,116.6*	*2,161.9*
..... *Municipal Solid Waste*	*Utility Scale Facilities*	*2,306.7*	*0.0*	*56.0*	*2,250.7*	*-56.0*	*20.6*	*20.6*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*2,250.7*	*2,250.7*
..... *Other Waste Biomass*	*Utility Scale Facilities*	*838.5*	*0.0*	*0.0*	*838.5*	*0.0*	*15.1*	*15.1*	*7.5*	*28.9*	*0.0*	*1.2*	*7.5*	*27.7*	*846.0*	*866.2*
..... Biomass Sources Subtotal	Utility Scale Facilities	13,671.1	144.1	56.0	13,759.2	88.1	224.6	228.4	7.5	149.2	0.0	24.7	7.5	124.5	13,766.7	13,883.7
..... Geothermal	Utility Scale Facilities	2,546.1	0.0	16.0	2,530.1	-16.0	15.8	15.8	0.0	0.0	0.0	0.0	0.0	0.0	2,530.1	2,530.1
... Renewable Sources Subtotal	***Utility Scale Facilities***	***177,278.4***	***1,262.4***	***72.0***	***178,468.8***	***1,190.4***	***8,187.8***	***11,351.7***	***4,074.0***	***13,819.0***	***25.3***	***61.7***	***4,048.7***	***13,757.3***	***182,517.5***	***192,226.1***
..... *Natural Gas Fired Combined Cycle*	*Utility Scale Facilities*	*232,989.1*	*1,338.2*	*6.8*	*234,320.5*	*1,331.4*	*5,654.7*	*6,732.4*	*0.4*	*5,525.7*	*0.0*	*0.0*	*0.4*	*5,525.7*	*234,320.9*	*239,846.2*
..... *Natural Gas Fired Combustion Turbine*	*Utility Scale Facilities*	*124,770.3*	*67.0*	*0.0*	*124,837.3*	*67.0*	*-73.6*	*-89.6*	*40.2*	*1,996.9*	*19.7*	*90.7*	*20.5*	*1,906.2*	*124,857.8*	*126,743.5*
..... *Natural Gas Steam Turbine*	*Utility Scale Facilities*	*75,361.9*	*133.5*	*88.9*	*75,406.5*	*44.6*	*367.0*	*-379.0*	*0.0*	*0.0*	*395.0*	*1,040.7*	*-395.0*	*-1,040.7*	*75,011.5*	*74,365.8*
..... *Natural Gas Internal Combustion Engine*	*Utility Scale Facilities*	*3,570.4*	*4.4*	*0.4*	*3,574.4*	*4.0*	*250.8*	*456.6*	*18.2*	*527.9*	*0.9*	*4.2*	*17.3*	*523.7*	*3,591.7*	*4,098.1*
..... *Natural Gas with Compressed Air Storage*	*Utility Scale Facilities*	*110.0*	*0.0*	*0.0*	*110.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*110.0*	*110.0*
..... *Other Natural Gas*	*Utility Scale Facilities*	*99.5*	*5.1*	*0.0*	*104.6*	*5.1*	*4.1*	*4.1*	*1.4*	*3.9*	*0.0*	*0.0*	*1.4*	*3.9*	*106.0*	*108.5*
..... Natural Gas Subtotal	Utility Scale Facilities	436,901.2	1,548.2	96.1	438,353.3	1,452.1	6,203.0	6,724.5	60.2	8,054.4	415.6	1,135.6	-355.4	6,918.8	437,997.9	445,272.1
..... *Conventional Steam Coal*	*Utility Scale Facilities*	*286,230.2*	*0.0*	*1,056.1*	*285,174.1*	*-1,056.1*	*-13,129.1*	*-13,684.3*	*0.0*	*51.2*	*1,741.4*	*6,950.4*	*-1,741.4*	*-6,899.2*	*283,432.7*	*278,274.9*
..... *Coal Integrated Gasification Combined Cycle*	*Utility Scale Facilities*	*791.0*	*0.0*	*0.0*	*791.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*0.0*	*791.0*	*791.0*
..... Coal Subtotal	Utility Scale Facilities	287,021.2	0.0	1,056.1	285,965.1	-1,056.1	-13,129.1	-13,684.3	0.0	51.2	1,741.4	6,950.4	-1,741.4	-6,899.2	284,223.7	279,065.9
..... Petroleum Coke	Utility Scale Facilities	2,190.2	0.0	0.0	2,190.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,190.2	2,190.2
..... Petroleum Liquids	Utility Scale Facilities	38,102.3	1.6	1.1	38,102.8	0.5	-842.4	-1,041.4	0.8	33.6	1.3	127.8	-0.5	-94.2	38,102.3	38,008.6
..... Other Gases	Utility Scale Facilities	1,914.3	0.0	0.0	1,914.3	0.0	0.0	0.0	0.0	0.0	3.2	3.2	-3.2	-3.2	1,911.1	1,911.1
... Fossil Fuels Subtotal	***Utility Scale Facilities***	***766,129.2***	***1,549.8***	***1,153.3***	***766,525.7***	***396.5***	***-7,768.5***	***-8,001.2***	***61.0***	***8,139.2***	***2,161.5***	***8,217.0***	***-2,100.5***	***-77.8***	***764,425.2***	***766,447.9***
..... Hydroelectric Pumped Storage	Utility Scale Facilities	22,558.1	0.0	0.0	22,558.1	0.0	73.0	73.0	0.0	152.0	0.0	0.0	0.0	152.0	22,558.1	22,710.1
..... Flywheels	Utility Scale Facilities	43.0	0.0	0.0	43.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	43.0	43.0
..... Batteries	Utility Scale Facilities	229.2	3.0	0.0	232.2	3.0	76.1	76.1	22.5	72.9	0.0	0.0	22.5	72.9	254.7	305.1
... Energy Storage Subtotal	***Utility Scale Facilities***	***22,830.3***	***3.0***	***0.0***	***22,833.3***	***3.0***	***149.1***	***149.1***	***22.5***	***224.9***	***0.0***	***0.0***	***22.5***	***224.9***	***22,855.8***	***23,058.2***
... Nuclear	***Utility Scale Facilities***	***98,708.1***	***0.0***	***0.0***	***98,708.1***	***0.0***	***138.8***	***-473.6***	***0.0***	***1,122.0***	***0.0***	***0.0***	***0.0***	***1,122.0***	***98,708.1***	***99,830.1***
... All Other	***Utility Scale Facilities***	***1,704.8***	***0.0***	***96.0***	***1,608.8***	***-96.0***	***-984.7***	***-984.7***	***1.0***	***16.0***	***0.0***	***0.0***	***1.0***	***16.0***	***1,609.8***	***1,624.8***
TOTAL	**UTILITY SCALE FACILITIES**	**1,066,650.8**	**2,815.2**	**1,321.3**	**1,068,144.7**	**1,493.9**	**-277.5**	**2,041.3**	**4,158.5**	**23,321.1**	**2,186.8**	**8,278.7**	**1,971.7**	**15,042.4**	**1,070,116.4**	**1,083,187.1**
..... *Estimated Distributed Solar Photovoltaic*	*Distributed Facilities*	*7,876.8*			*8,061.5*	*184.7*	*1,840.1*	*2,050.3*								
..... Estimated Total Solar Photovoltaic	All Facilities	17,930.9			18,523.8	592.9	3,645.8	4,507.3								
... Estimated Total Solar	***All Facilities***	***19,597.6***			***20,300.5***	***702.9***	***3,755.8***	***4,867.3***								

NOTES:

Planned Capacity Additions reflect plans to begin operating new units and plans to uprate existing units.

Planned Capacity Reductions reflect plans to retire or derate existing units.

Actual Capacity Additions reflect new units, uprates to existing units, corrections to previously reported capacities, and additions not previously reported.

Actual Capacity Reductions reflect retirements of and derates to existing units, corrections to previously reported capacities, and reductions not previously reported.

Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this report. This exclusion may represent a signifciant portion of capacity for some technologies such as solar photovoltaic generation.

Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Table 6.1.A. Net Summer Capacity for Utility Scale Solar Photovoltaic and Distributed Solar Photovoltaic Capacity (Megawatts)
2008 - November 2015

Period	Utility Solar Photovoltaic	Estimated Distributed Solar Photovoltaic	Estimated Total Solar Photovoltaic
Annual Totals			
2008	70.8	N/A	N/A
2009	145.5	N/A	N/A
2010	393.4	N/A	N/A
2011	1,052.0	N/A	N/A
2012	2,694.1	N/A	N/A
2013	5,336.1	N/A	N/A
2014	8,656.6	6,221.4	14,878.0
Year 2013			
January	2,864.2	N/A	N/A
February	2,989.6	N/A	N/A
March	3,089.3	N/A	N/A
April	3,271.9	N/A	N/A
May	3,327.4	N/A	N/A
June	3,567.6	N/A	N/A
July	3,654.3	N/A	N/A
August	3,794.8	N/A	N/A
Sept	3,884.0	N/A	N/A
October	4,249.7	N/A	N/A
November	4,746.8	N/A	N/A
December	5,336.1	N/A	N/A
Year 2014			
January	5,688.0	4,763.4	10,451.4
February	5,839.2	4,862.8	10,702.0
March	5,967.9	4,970.5	10,938.4
April	6,188.0	5,077.5	11,265.5
May	6,368.8	5,190.8	11,559.6
June	6,564.1	5,291.3	11,855.4
July	6,706.3	5,413.5	12,119.8
August	7,105.0	5,609.8	12,714.8
Sept	7,215.1	5,734.2	12,949.3
October	7,575.3	5,880.0	13,455.3
November	8,005.3	6,011.2	14,016.5
December	8,656.6	6,221.4	14,878.0
Year 2015			
January	8,812.7	6,391.2	15,203.9
February	8,969.4	6,524.0	15,493.4
March	9,028.0	6,656.9	15,684.9
April	9,109.7	6,798.4	15,908.1
May	9,313.4	6,952.7	16,266.1
June	9,582.2	7,106.9	16,689.1
July	9,669.0	7,322.3	16,991.3
August	9,878.7	7,493.3	17,372.0
Sept	9,967.5	7,692.0	17,659.5
October	10,054.1	7,876.8	17,930.9
November	10,462.3	8,061.5	18,523.8

Values for 2014 are final. Values for 2015 are preliminary.

Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'
Estimated distributed solar photovoltaic capacity is based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

Table 6.1.B. Net Summer Capacity for Estimated Distributed Solar Photovoltaic Capacity by Sector (Megawatts):
2014 - November 2015

Period	Residential	Commercial	Industrial	Total
Annual Totals				
2014	2,870.8	2,771.8	578.8	6,221.4
Year 2014				
January	1,963.5	2,334.5	465.4	4,763.4
February	2,023.4	2,367.5	471.9	4,862.8
March	2,087.0	2,405.5	477.9	4,970.5
April	2,154.7	2,435.5	487.3	5,077.5
May	2,224.6	2,474.9	491.3	5,190.8
June	2,301.1	2,490.8	499.4	5,291.3
July	2,376.1	2,528.2	509.1	5,413.5
August	2,468.4	2,617.0	524.4	5,609.8
Sept	2,559.3	2,644.5	530.4	5,734.2
October	2,655.0	2,673.0	552.0	5,880.0
November	2,739.3	2,707.4	564.6	6,011.2
December	2,870.8	2,771.8	578.8	6,221.4
Year 2015				
January	2,960.1	2,835.9	595.2	6,391.2
February	3,060.8	2,854.7	608.4	6,524.0
March	3,169.2	2,874.7	613.0	6,656.9
April	3,274.8	2,903.0	620.6	6,798.4
May	3,384.1	2,938.0	630.6	6,952.7
June	3,516.4	2,957.6	632.9	7,106.9
July	3,650.7	3,024.6	647.0	7,322.3
August	3,779.3	3,056.7	657.2	7,493.3
Sept	3,936.8	3,089.3	665.9	7,692.0
October	4,083.9	3,116.9	676.0	7,876.8
November	4,212.3	3,160.3	688.9	8,061.5

Values for 2014 are final. Values for 2015 are preliminary.

Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'
Estimated distributed solar photovoltaic capacity is based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

Table 6.2.A. Net Summer Capacity of Utility Scale Units by Technology and by State, November 2015 and 2014 (Megawatts)

Census Division and State	Renewable Sources		Fossil Fuels		Hydroelectric Pumped Storage		Other Energy Storage		Nuclear		All Other Sources		All Sources	
	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	4,787.1	4,566.8	22,892.4	22,853.0	1,775.4	1,775.4	3.0	3.0	4,046.3	4,658.7	52.9	52.9	33,557.1	33,909.8
Connecticut	328.2	336.6	6,319.0	6,312.8	29.4	29.4	0.0	0.0	2,122.5	2,122.5	30.9	30.9	8,830.0	8,832.2
Maine	1,977.6	1,795.4	2,645.0	2,653.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	22.0	4,644.6	4,470.4
Massachusetts	944.6	900.6	9,800.4	9,791.2	1,746.0	1,746.0	3.0	3.0	677.6	677.6	0.0	0.0	13,171.6	13,118.4
New Hampshire	935.4	935.4	2,266.7	2,236.7	0.0	0.0	0.0	0.0	1,246.2	1,246.2	0.0	0.0	4,448.3	4,418.3
Rhode Island	51.3	50.3	1,761.8	1,759.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,813.1	1,810.1
Vermont	550.0	548.5	99.5	99.5	0.0	0.0	0.0	0.0	0.0	612.4	0.0	0.0	649.5	1,260.4
Middle Atlantic	10,591.5	10,549.5	69,070.1	69,333.4	3,409.1	3,409.1	40.0	40.0	19,321.4	19,182.6	11.2	11.2	102,443.3	102,525.8
New Jersey	676.6	645.9	14,054.4	14,211.4	420.0	420.0	0.0	0.0	4,110.1	4,110.1	11.2	11.2	19,272.3	19,398.6
New York	7,055.3	7,044.0	26,500.4	26,499.3	1,406.1	1,406.1	20.0	20.0	5,431.5	5,431.5	0.0	0.0	40,413.3	40,400.9
Pennsylvania	2,859.6	2,859.6	28,515.3	28,622.7	1,583.0	1,583.0	20.0	20.0	9,779.8	9,641.0	0.0	0.0	42,757.7	42,726.3
East North Central	9,997.3	9,332.0	116,960.6	121,186.9	1,945.0	1,872.0	100.6	25.5	18,873.3	18,873.3	109.1	111.0	147,985.9	151,400.7
Illinois	3,980.1	3,717.9	30,000.8	29,693.1	0.0	0.0	72.6	1.5	11,564.1	11,564.1	0.0	1.0	45,617.6	44,977.6
Indiana	1,991.9	1,749.7	24,245.0	25,445.0	0.0	0.0	0.0	0.0	0.0	0.0	88.0	88.0	26,324.9	27,282.7
Michigan	2,148.7	1,992.1	22,118.9	22,433.3	1,945.0	1,872.0	0.0	0.0	3,982.0	3,982.0	0.0	0.9	30,194.6	30,280.3
Ohio	719.1	714.8	25,971.2	28,821.7	0.0	0.0	28.0	24.0	2,134.0	2,134.0	0.0	0.0	28,852.3	31,694.5
Wisconsin	1,157.5	1,157.5	14,624.7	14,793.8	0.0	0.0	0.0	0.0	1,193.2	1,193.2	21.1	21.1	16,996.5	17,165.6
West North Central	20,214.0	18,551.8	61,821.8	62,360.2	657.0	657.0	2.0	2.0	5,806.0	5,806.0	24.5	44.5	88,525.3	87,421.5
Iowa	6,243.5	5,467.1	10,063.6	10,157.7	0.0	0.0	0.0	0.0	601.4	601.4	0.0	20.0	16,908.5	16,246.2
Kansas	3,197.6	2,990.9	9,945.5	10,149.9	0.0	0.0	0.0	0.0	1,175.0	1,175.0	0.8	0.8	14,318.9	14,316.6
Minnesota	3,640.9	3,423.9	10,235.5	10,584.5	0.0	0.0	1.0	1.0	1,594.0	1,594.0	18.4	18.4	15,489.8	15,621.8
Missouri	1,054.6	1,047.0	18,916.9	18,887.8	657.0	657.0	1.0	1.0	1,193.0	1,193.0	0.0	0.0	21,822.5	21,785.8
Nebraska	1,105.4	1,105.4	6,384.4	6,384.4	0.0	0.0	0.0	0.0	1,242.6	1,242.6	0.0	0.0	8,732.4	8,732.4
North Dakota	2,634.0	2,279.0	4,585.6	4,505.6	0.0	0.0	0.0	0.0	0.0	0.0	5.3	5.3	7,224.9	6,789.9
South Dakota	2,338.0	2,238.5	1,690.3	1,690.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,028.3	3,928.8
South Atlantic	13,428.8	12,622.1	158,785.7	161,649.7	7,905.2	7,905.2	34.0	34.0	24,559.1	24,559.1	586.7	970.7	205,299.5	207,740.8
Delaware	45.0	43.8	3,354.4	3,042.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,399.4	3,086.2
District of Columbia	9.9	0.0	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.9	9.0
Florida	1,356.2	1,310.5	53,863.8	54,278.8	0.0	0.0	0.0	0.0	3,572.0	3,572.0	488.7	776.7	59,280.7	59,938.0
Georgia	2,978.3	2,856.9	27,138.1	29,419.1	1,862.2	1,862.2	0.0	0.0	4,061.0	4,061.0	44.0	44.0	36,083.6	38,243.2
Maryland	1,001.7	914.3	9,683.2	9,600.2	0.0	0.0	0.0	0.0	1,707.8	1,707.8	0.0	0.0	12,392.7	12,222.3
North Carolina	3,622.0	3,080.9	21,973.4	22,005.4	86.0	86.0	0.0	0.0	5,094.1	5,094.1	54.0	54.0	30,829.5	30,320.4
South Carolina	1,779.5	1,779.5	11,772.3	11,772.3	2,716.0	2,716.0	0.0	0.0	6,556.2	6,556.2	0.0	0.0	22,824.0	22,824.0
Virginia	1,750.2	1,750.2	16,828.2	16,166.6	3,241.0	3,241.0	0.0	0.0	3,568.0	3,568.0	0.0	96.0	25,387.4	24,821.8
West Virginia	886.0	886.0	14,163.3	15,355.9	0.0	0.0	34.0	34.0	0.0	0.0	0.0	0.0	15,083.3	16,275.9
East South Central	7,958.3	7,937.8	68,953.3	70,318.0	1,616.3	1,616.3	0.0	0.0	9,875.6	9,875.6	1.4	159.7	88,404.9	89,907.4
Alabama	3,886.9	3,886.9	22,328.0	23,000.0	0.0	0.0	0.0	0.0	5,066.4	5,066.4	0.0	0.0	31,281.3	31,953.3
Kentucky	907.6	905.4	19,277.2	19,976.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20,184.8	20,881.6
Mississippi	274.7	274.7	14,253.7	14,247.4	0.0	0.0	0.0	0.0	1,408.5	1,408.5	1.4	159.7	15,938.3	16,090.3
Tennessee	2,889.1	2,870.8	13,094.4	13,094.4	1,616.3	1,616.3	0.0	0.0	3,400.7	3,400.7	0.0	0.0	21,000.5	20,982.2
West South Central	25,874.2	21,053.5	147,864.2	146,104.7	288.0	288.0	36.0	36.0	8,912.4	8,912.4	513.2	499.2	183,488.0	176,893.8
Arkansas	1,632.0	1,632.0	11,270.5	11,274.0	28.0	28.0	0.0	0.0	1,819.6	1,819.6	0.0	0.0	14,750.1	14,753.6
Louisiana	642.1	642.1	23,516.9	23,071.2	0.0	0.0	0.0	0.0	2,132.8	2,132.8	275.8	275.8	26,567.6	26,121.9
Oklahoma	5,370.3	4,222.3	19,234.1	19,051.9	260.0	260.0	0.0	0.0	0.0	0.0	0.0	0.0	24,864.4	23,534.2
Texas	18,229.8	14,557.1	93,842.7	92,707.6	0.0	0.0	36.0	36.0	4,960.0	4,960.0	237.4	223.4	117,305.9	112,484.1
Mountain	21,585.1	20,558.5	64,071.1	64,676.6	778.8	778.8	2.6	2.6	3,937.0	3,937.0	111.4	111.4	90,486.0	90,064.9
Arizona	4,497.6	4,350.3	19,413.0	19,694.4	216.3	216.3	0.0	0.0	3,937.0	3,937.0	0.0	0.0	28,063.9	28,198.0
Colorado	3,803.2	3,342.8	11,422.4	10,986.2	562.5	562.5	0.0	0.0	0.0	0.0	9.3	9.3	15,797.4	14,900.8
Idaho	3,776.1	3,776.1	1,157.5	1,152.9	0.0	0.0	0.0	0.0	0.0	0.0	14.8	14.8	4,948.4	4,943.8
Montana	3,397.8	3,397.3	2,718.2	2,888.7	0.0	0.0	0.0	0.0	0.0	0.0	44.0	44.0	6,160.0	6,330.0
Nevada	2,537.8	2,183.0	8,258.7	8,692.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10,796.5	10,875.7
New Mexico	1,168.0	1,127.5	6,914.8	6,903.3	0.0	0.0	2.6	2.6	0.0	0.0	0.0	0.0	8,085.4	8,033.4
Utah	690.2	667.1	7,454.4	7,626.3	0.0	0.0	0.0	0.0	0.0	0.0	31.8	31.8	8,176.4	8,325.2
Wyoming	1,714.4	1,714.4	6,732.1	6,732.1	0.0	0.0	0.0	0.0	0.0	0.0	11.5	11.5	8,458.0	8,458.0
Pacific Contiguous	62,960.1	60,889.5	51,974.9	52,078.9	4,183.3	4,183.3	9.0	8.0	3,377.0	3,377.0	171.8	566.3	122,676.1	121,103.0
California	26,242.5	24,472.4	43,322.4	43,706.5	3,869.3	3,869.3	8.0	8.0	2,240.0	2,240.0	121.0	453.6	75,803.2	74,749.8
Oregon	12,041.8	12,035.6	3,859.6	3,635.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15,901.4	15,671.0
Washington	24,675.8	24,381.5	4,792.9	4,737.0	314.0	314.0	1.0	0.0	1,137.0	1,137.0	50.8	112.7	30,971.5	30,682.2
Pacific Noncontiguous	1,072.4	1,055.6	4,131.6	3,965.5	0.0	0.0	48.0	48.0	0.0	0.0	26.6	66.6	5,278.6	5,135.7
Alaska	507.5	502.7	2,059.4	1,894.5	0.0	0.0	27.0	27.0	0.0	0.0	0.0	40.0	2,593.9	2,464.2
Hawaii	564.9	552.9	2,072.2	2,071.0	0.0	0.0	21.0	21.0	0.0	0.0	26.6	26.6	2,684.7	2,671.5
U.S. Total	178,468.8	167,117.1	766,525.7	774,526.9	22,558.1	22,485.1	275.2	199.1	98,708.1	99,181.7	1,608.8	2,593.5	1,068,144.7	1,066,103.4

Values for 2014 are final. Values for 2015 are preliminary.

NOTES:
Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this report. This exclusion may represent a significant portion of capacity for some technologies such as solar photovoltaic generation.
Concentrated Solar Power Energy Storage is included in 'Renewable sources'; it is not included in 'Other Energy Storage'

Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Table 6.2.B. Net Summer Capacity Using Primarily Renewable Energy Sources and by State, November 2015 and 2014 (Megawatts)

Census Division and State	Summer Capacity at Utility Scale Facilities														Distributed Capacity		Summer Capacity From Utility Scale Facilities and Distributed Capacity			
	Wind		Solar Photovoltaic		Solar Thermal		Conventional Hydroelectric		Biomass Sources		Geothermal		Total Renewable Sources		Estimated Distributed Solar Photovoltaic Capacity		Estimated Total Solar Photovoltaic Capacity		Estimated Total Solar Capacity	
	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	990.4	808.2	363.4	317.3	0.0	0.0	1,966.2	1,965.8	1,467.1	1,475.5	0.0	0.0	4,787.1	4,566.8	765.3	548.6	1,128.7	865.9	1,128.7	865.9
Connecticut	0.0	0.0	10.0	10.0	0.0	0.0	122.2	122.2	196.0	204.4	0.0	0.0	328.2	336.6	143.3	81.8	153.3	91.8	153.3	91.8
Maine	612.8	430.6	0.0	0.0	0.0	0.0	733.0	733.0	631.8	631.8	0.0	0.0	1,977.6	1,795.4	13.8	8.9	13.8	8.9	13.8	8.9
Massachusetts	82.6	82.6	315.3	271.7	0.0	0.0	263.4	263.0	283.3	283.3	0.0	0.0	944.6	900.6	530.0	413.1	845.3	684.8	845.3	684.8
New Hampshire	171.0	171.0	0.0	0.0	0.0	0.0	521.3	521.3	243.1	243.1	0.0	0.0	935.4	935.4	20.1	10.0	20.1	10.0	20.1	10.0
Rhode Island	3.8	3.8	7.9	6.9	0.0	0.0	2.7	2.7	36.9	36.9	0.0	0.0	51.3	50.3	9.8	7.6	17.7	14.5	17.7	14.5
Vermont	120.2	120.2	30.2	28.7	0.0	0.0	323.6	323.6	76.0	76.0	0.0	0.0	550.0	548.5	48.4	27.2	78.6	55.9	78.6	55.9
Middle Atlantic	3,098.5	3,098.5	529.0	486.4	0.0	0.0	5,618.8	5,618.8	1,345.2	1,345.8	0.0	0.0	10,591.5	10,549.5	1,352.1	1,120.3	1,881.1	1,606.7	1,881.1	1,606.7
New Jersey	7.6	7.6	425.9	395.2	0.0	0.0	12.3	12.3	230.8	230.8	0.0	0.0	676.6	645.9	808.7	730.0	1,234.6	1,125.2	1,234.6	1,125.2
New York	1,747.0	1,747.0	61.0	49.1	0.0	0.0	4,713.1	4,713.1	534.2	534.8	0.0	0.0	7,055.3	7,044.0	394.5	247.4	455.5	296.5	455.5	296.5
Pennsylvania	1,343.9	1,343.9	42.1	42.1	0.0	0.0	893.4	893.4	580.2	580.2	0.0	0.0	2,859.6	2,859.6	149.0	142.9	191.1	185.0	191.1	185.0
East North Central	7,655.4	7,027.8	191.6	143.6	0.0	0.0	918.2	918.2	1,232.1	1,242.4	0.0	0.0	9,997.3	9,332.0	135.9	114.3	327.5	257.9	327.5	257.9
Illinois	3,799.8	3,526.8	31.9	31.9	0.0	0.0	34.1	34.1	114.3	125.1	0.0	0.0	3,980.1	3,717.9	17.0	13.3	48.9	45.2	48.9	45.2
Indiana	1,739.7	1,539.7	117.0	74.8	0.0	0.0	60.4	60.4	74.8	74.8	0.0	0.0	1,991.9	1,749.7	9.3	6.7	126.3	81.5	126.3	81.5
Michigan	1,360.1	1,205.5	2.0	0.0	0.0	0.0	333.1	333.1	453.5	453.5	0.0	0.0	2,148.7	1,992.1	27.2	25.4	29.2	25.4	29.2	25.4
Ohio	424.1	424.1	39.7	35.9	0.0	0.0	101.9	101.9	153.4	152.9	0.0	0.0	719.1	714.8	62.3	51.9	102.0	87.8	102.0	87.8
Wisconsin	331.7	331.7	1.0	1.0	0.0	0.0	388.7	388.7	436.1	436.1	0.0	0.0	1,157.5	1,157.5	20.0	17.0	21.0	18.0	21.0	18.0
West North Central	16,362.4	14,728.6	14.2	9.4	0.0	0.0	3,300.8	3,300.8	536.6	513.0	0.0	0.0	20,214.0	18,551.8	143.1	123.6	157.3	133.0	157.3	133.0
Iowa	6,075.4	5,301.8	0.0	0.0	0.0	0.0	144.9	144.9	23.2	20.4	0.0	0.0	6,243.5	5,467.1	25.2	20.0	25.2	20.0	25.2	20.0
Kansas	3,174.6	2,968.9	1.0	0.0	0.0	0.0	7.0	7.0	15.0	15.0	0.0	0.0	3,197.6	2,990.9	3.1	2.2	4.1	2.2	4.1	2.2
Minnesota	2,987.8	2,787.8	1.7	1.7	0.0	0.0	195.0	195.0	456.4	439.4	0.0	0.0	3,640.9	3,423.9	19.3	15.1	21.0	16.8	21.0	16.8
Missouri	458.5	458.5	11.5	7.7	0.0	0.0	568.1	568.1	16.5	12.7	0.0	0.0	1,054.6	1,047.0	94.1	85.1	105.6	92.8	105.6	92.8
Nebraska	811.9	811.9	0.0	0.0	0.0	0.0	277.8	277.8	15.7	15.7	0.0	0.0	1,105.4	1,105.4	1.0	0.7	1.0	0.7	1.0	0.7
North Dakota	2,114.2	1,759.2	0.0	0.0	0.0	0.0	510.0	510.0	9.8	9.8	0.0	0.0	2,634.0	2,279.0	0.2	0.2	0.2	0.2	0.2	0.2
South Dakota	740.0	640.5	0.0	0.0	0.0	0.0	1,598.0	1,598.0	0.0	0.0	0.0	0.0	2,338.0	2,238.5	0.3	0.3	0.3	0.3	0.3	0.3
South Atlantic	775.3	705.3	1,280.4	724.7	0.0	0.0	7,198.0	7,198.0	4,175.1	3,994.1	0.0	0.0	13,428.8	12,622.1	530.5	384.1	1,810.9	1,108.8	1,810.9	1,108.8
Delaware	2.0	2.0	30.8	29.6	0.0	0.0	0.0	0.0	12.2	12.2	0.0	0.0	45.0	43.8	43.1	38.6	73.9	68.2	73.9	68.2
District of Columbia	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.9	0.0	0.0	0.0	9.9	0.0	16.6	16.2	16.6	16.2	16.6	16.2
Florida	0.0	0.0	80.8	72.9	0.0	0.0	54.5	54.5	1,220.9	1,183.1	0.0	0.0	1,356.2	1,310.5	98.0	62.7	178.8	135.6	178.8	135.6
Georgia	0.0	0.0	88.6	62.1	0.0	0.0	2,047.6	2,047.6	842.1	747.2	0.0	0.0	2,978.3	2,856.9	52.6	49.3	141.2	111.4	141.2	111.4
Maryland	190.0	120.0	76.6	59.2	0.0	0.0	590.0	590.0	145.1	145.1	0.0	0.0	1,001.7	914.3	223.0	143.0	299.6	202.2	299.6	202.2
North Carolina	0.0	0.0	1,001.1	498.4	0.0	0.0	1,999.1	1,999.1	621.8	583.4	0.0	0.0	3,622.0	3,080.9	68.6	54.9	1,069.7	553.3	1,069.7	553.3
South Carolina	0.0	0.0	2.5	2.5	0.0	0.0	1,340.3	1,340.3	436.7	436.7	0.0	0.0	1,779.5	1,779.5	4.8	2.5	7.3	5.0	7.3	5.0
Virginia	0.0	0.0	0.0	0.0	0.0	0.0	866.0	866.0	884.2	884.2	0.0	0.0	1,750.2	1,750.2	21.0	14.7	21.0	14.7	21.0	14.7
West Virginia	583.3	583.3	0.0	0.0	0.0	0.0	300.5	300.5	2.2	2.2	0.0	0.0	886.0	886.0	2.8	2.3	2.8	2.3	2.8	2.3
East South Central	29.1	29.1	45.2	29.4	0.0	0.0	6,726.9	6,722.2	1,157.1	1,157.1	0.0	0.0	7,958.3	7,937.8	49.4	48.4	94.6	77.8	94.6	77.8
Alabama	0.0	0.0	0.0	0.0	0.0	0.0	3,271.0	3,271.0	615.9	615.9	0.0	0.0	3,886.9	3,886.9	1.9	1.8	1.9	1.8	1.9	1.8
Kentucky	0.0	0.0	0.0	0.0	0.0	0.0	837.3	835.1	70.3	70.3	0.0	0.0	907.6	905.4	8.9	8.1	8.9	8.1	8.9	8.1
Mississippi	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	274.7	274.7	0.0	0.0	274.7	274.7	1.5	1.4	1.5	1.4	1.5	1.4
Tennessee	29.1	29.1	45.2	29.4	0.0	0.0	2,618.6	2,616.1	196.2	196.2	0.0	0.0	2,889.1	2,870.8	37.1	37.1	82.3	66.5	82.3	66.5
West South Central	21,279.6	16,507.4	218.4	169.9	0.0	0.0	3,049.6	3,049.6	1,326.6	1,326.6	0.0	0.0	25,874.2	21,053.5	234.9	165.9	453.3	335.8	453.3	335.8
Arkansas	0.0	0.0	0.0	0.0	0.0	0.0	1,323.6	1,323.6	308.4	308.4	0.0	0.0	1,632.0	1,632.0	3.6	3.1	3.6	3.1	3.6	3.1
Louisiana	0.0	0.0	0.0	0.0	0.0	0.0	192.0	192.0	450.1	450.1	0.0	0.0	642.1	642.1	104.3	69.2	104.3	69.2	104.3	69.2
Oklahoma	4,428.4	3,282.9	2.5	0.0	0.0	0.0	863.2	863.2	76.2	76.2	0.0	0.0	5,370.3	4,222.3	2.0	1.6	4.5	1.6	4.5	1.6
Texas	16,851.2	13,224.5	215.9	169.9	0.0	0.0	670.8	670.8	491.9	491.9	0.0	0.0	18,229.8	14,557.1	125.1	92.0	341.0	261.9	341.0	261.9
Mountain	7,526.8	7,031.0	2,317.0	1,926.7	473.9	363.9	10,560.8	10,560.3	178.2	178.2	528.4	498.4	21,585.1	20,558.5	1,132.3	848.7	3,449.3	2,775.4	3,923.2	3,139.3
Arizona	267.3	237.3	1,179.3	1,062.0	295.4	295.4	2,720.9	2,720.9	34.7	34.7	0.0	0.0	4,497.6	4,350.3	627.9	495.5	1,807.2	1,557.5	2,102.6	1,852.9
Colorado	2,966.1	2,515.3	133.4	123.8	0.0	0.0	676.3	676.3	27.4	27.4	0.0	0.0	3,803.2	3,342.8	251.7	208.0	385.1	331.8	385.1	331.8
Idaho	962.7	962.7	0.0	0.0	0.0	0.0	2,707.7	2,707.7	95.7	95.7	10.0	10.0	3,776.1	3,776.1	4.5	3.0	4.5	3.0	4.5	3.0
Montana	636.7	636.7	0.0	0.0	0.0	0.0	2,758.1	2,757.6	3.0	3.0	0.0	0.0	3,397.8	3,397.3	5.9	8.0	5.9	8.0	5.9	8.0
Nevada	150.0	150.0	710.9	496.1	178.5	68.5	1,051.4	1,051.4	3.2	3.2	443.8	413.8	2,537.8	2,183.0	120.6	47.0	831.5	543.1	1,010.0	611.6
New Mexico	812.3	797.3	269.0	243.5	0.0	0.0	82.9	82.9	2.2	2.2	1.6	1.6	1,168.0	1,127.5	72.3	61.0	341.3	304.5	341.3	304.5
Utah	324.4	324.4	24.4	1.3	0.0	0.0	256.4	256.4	12.0	12.0	73.0	73.0	690.2	667.1	47.7	24.6	72.1	25.9	72.1	25.9
Wyoming	1,407.3	1,407.3	0.0	0.0	0.0	0.0	307.1	307.1	0.0	0.0	0.0	0.0	1,714.4	1,714.4	1.8	1.5	1.8	1.5	1.8	1.5
Pacific Contiguous	12,243.7	11,778.9	5,458.9	4,165.7	1,302.8	1,052.8	39,908.9	39,875.2	2,087.1	2,044.0	1,958.7	1,972.9	62,960.1	60,889.5	3,348.7	2,348.5	8,807.6	6,514.2	10,110.4	7,567.0
California	6,013.2	5,815.2	5,444.5	4,151.3	1,302.8	1,052.8	10,182.9	10,175.1	1,359.9	1,322.8	1,939.2	1,955.2	26,242.5	24,472.4	3,228.2	2,259.7	8,672.7	6,411.0	9,975.5	7,463.8
Oregon	3,157.4	3,157.4	13.9	13.9	0.0	0.0	8,519.8	8,515.4	331.2	331.2	19.5	17.7	12,041.8	12,035.6	73.3	59.4	87.2	73.3	87.2	73.3
Washington	3,073.1	2,806.3	0.5	0.5	0.0	0.0	21,206.2	21,184.7	396.0	390.0	0.0	0.0	24,675.8	24,381.5	47.1	29.4	47.6	29.9	47.6	29.9
Pacific Noncontiguous	265.6	265.6	44.2	32.2	0.0	0.0	465.5	460.7	254.1	254.1	43.0	43.0	1,072.4	1,055.6	369.3	308.8	413.5	341.0	413.5	341.0
Alaska	60.0	60.0	0.0	0.0	0.0	0.0	440.5	435.7	7.0	7.0	0.0	0.0	507.5	502.7	0.0	0.0	0.0	0.0	0.0	0.0
Hawaii	205.6	205.6	44.2	32.2	0.0	0.0	25.0	25.0	247.1	247.1	43.0	43.0	564.9	552.9	369.3	308.8	413.5	341.0	413.5	341.0
U.S. Total	70,226.8	61,980.4	10,462.3	8,005.3	1,776.7	1,416.7	79,713.7	79,669.6	13,759.2	13,530.8	2,530.1	2,514.3	178,468.8	167,117.1	8,061.5	6,011.2	18,523.8	14,016.5	20,300.5	15,433.2

Values for 2014 are final. Values for 2015 are preliminary.

Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'
Estimated distributed solar photovoltaic capacity is based on data from Form EIA-826, Form EIA-861 and from estimation methods described in the technical notes.

Table 6.2.C. Net Summer Capacity of Utility Scale Units Using Primarily Fossil Fuels and by State, November 2015 and 2014 (Megawatts)

Census Division and State	Natural Gas Fired Combined Cycle		Natural Gas Fired Combustion Turbine		Other Natural Gas		Coal		Petroleum Coke		Petroleum Liquids		Other Gases		Total Fossil Fuels	
	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014	November 2015	November 2014
New England	11,785.4	11,742.0	1,110.1	1,110.1	969.8	963.4	2,073.3	2,076.8	0.0	0.0	6,953.8	6,960.7	0.0	0.0	22,892.4	22,853.0
Connecticut	2,504.6	2,504.6	482.2	482.2	69.8	64.7	383.4	383.4	0.0	0.0	2,879.0	2,877.9	0.0	0.0	6,319.0	6,312.8
Maine	1,250.0	1,250.0	297.2	297.2	119.0	119.0	85.0	85.0	0.0	0.0	893.8	901.8	0.0	0.0	2,645.0	2,653.0
Massachusetts	5,067.6	5,054.2	326.9	326.9	768.6	769.3	1,071.0	1,074.5	0.0	0.0	2,566.3	2,566.3	0.0	0.0	9,800.4	9,791.2
New Hampshire	1,231.0	1,201.0	3.8	3.8	0.0	0.0	533.9	533.9	0.0	0.0	498.0	498.0	0.0	0.0	2,266.7	2,236.7
Rhode Island	1,732.2	1,732.2	0.0	0.0	12.4	10.4	0.0	0.0	0.0	0.0	17.2	17.2	0.0	0.0	1,761.8	1,759.8
Vermont	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.5	99.5	0.0	0.0	99.5	99.5
Middle Atlantic	24,858.3	23,322.4	7,794.6	8,808.6	11,088.0	11,072.0	18,426.5	18,582.4	11.6	11.6	6,790.7	7,436.0	100.4	100.4	69,070.1	69,333.4
New Jersey	8,125.2	6,620.9	3,067.5	4,081.5	512.6	514.6	1,870.0	1,870.0	11.6	11.6	467.5	1,112.8	0.0	0.0	14,054.4	14,211.4
New York	8,259.9	8,250.0	3,048.1	3,048.1	8,758.8	8,758.8	2,490.1	2,498.9	0.0	0.0	3,943.5	3,943.5	0.0	0.0	26,500.4	26,499.3
Pennsylvania	8,473.2	8,451.5	1,679.0	1,679.0	1,816.6	1,798.6	14,066.4	14,213.5	0.0	0.0	2,379.7	2,379.7	100.4	100.4	28,515.3	28,622.7
East North Central	16,955.5	16,384.0	25,643.9	25,665.9	3,601.3	3,656.7	66,572.8	71,088.2	521.6	521.6	2,730.8	2,935.8	934.7	934.7	116,960.6	121,186.9
Illinois	3,543.0	2,972.4	10,174.3	10,183.3	245.5	231.6	15,238.1	15,505.9	0.0	0.0	682.2	682.2	117.7	117.7	30,000.8	29,693.1
Indiana	2,480.2	2,480.2	3,142.6	3,142.6	76.0	76.0	17,399.0	18,599.0	274.0	274.0	273.3	273.3	599.9	599.9	24,245.0	25,445.0
Michigan	4,292.5	4,291.6	3,543.8	3,556.8	2,862.0	3,051.3	10,848.4	10,948.4	47.2	47.2	525.0	538.0	0.0	0.0	22,118.9	22,433.3
Ohio	3,974.6	3,974.6	5,427.7	5,427.7	131.4	131.4	15,425.5	18,084.0	142.0	142.0	652.9	844.9	217.1	217.1	25,971.2	28,821.7
Wisconsin	2,665.2	2,665.2	3,355.5	3,355.5	286.4	166.4	7,661.8	7,950.9	58.4	58.4	597.4	597.4	0.0	0.0	14,624.7	14,793.8
West North Central	5,751.8	5,731.8	11,517.8	11,494.8	3,500.5	3,400.9	36,930.2	37,602.9	32.0	32.0	4,081.1	4,089.4	8.4	8.4	61,821.8	62,360.2
Iowa	1,131.0	1,111.0	1,104.4	1,104.4	548.3	344.2	6,240.0	6,563.0	32.0	32.0	1,007.9	1,003.1	0.0	0.0	10,063.6	10,157.7
Kansas	0.0	0.0	2,324.8	2,363.8	2,034.0	2,146.0	5,047.1	5,097.1	0.0	0.0	539.6	543.0	0.0	0.0	9,945.5	10,149.9
Minnesota	2,158.2	2,158.2	2,533.7	2,575.7	271.4	263.9	4,478.0	4,788.7	0.0	0.0	794.2	798.0	0.0	0.0	10,235.5	10,584.5
Missouri	1,830.0	1,830.0	3,379.4	3,355.4	230.8	230.8	12,337.6	12,326.6	0.0	0.0	1,139.1	1,145.0	0.0	0.0	18,916.9	18,887.8
Nebraska	342.6	342.6	1,152.9	1,152.9	407.3	407.3	4,167.9	4,167.9	0.0	0.0	313.7	313.7	0.0	0.0	6,384.4	6,384.4
North Dakota	0.0	0.0	328.0	248.0	0.0	0.0	4,184.6	4,184.6	0.0	0.0	64.6	64.6	8.4	8.4	4,585.6	4,505.6
South Dakota	290.0	290.0	694.6	694.6	8.7	8.7	475.0	475.0	0.0	0.0	222.0	222.0	0.0	0.0	1,690.3	1,690.3
South Atlantic	47,824.3	46,157.1	31,980.0	31,856.0	5,473.4	4,937.4	58,849.6	63,865.8	669.8	669.8	13,853.6	14,028.6	135.0	135.0	158,785.7	161,649.7
Delaware	1,505.0	1,196.0	314.0	311.0	876.0	876.0	410.0	410.0	0.0	0.0	114.4	114.4	135.0	135.0	3,354.4	3,042.4
District of Columbia	0.0	0.0	9.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	9.0
Florida	25,545.6	25,755.6	8,400.0	8,404.0	2,736.3	2,792.3	10,085.0	10,177.0	586.0	586.0	6,510.9	6,563.9	0.0	0.0	53,863.8	54,278.8
Georgia	7,961.8	7,961.8	7,823.4	7,823.4	707.0	115.0	9,563.4	12,314.4	83.8	83.8	998.7	1,120.7	0.0	0.0	27,138.1	29,419.1
Maryland	250.0	250.0	1,580.9	1,470.9	325.8	325.8	4,712.0	4,739.0	0.0	0.0	2,814.5	2,814.5	0.0	0.0	9,683.2	9,600.2
North Carolina	4,738.5	4,738.5	6,031.7	6,031.7	0.0	0.0	10,800.8	10,832.8	0.0	0.0	402.4	402.4	0.0	0.0	21,973.4	22,005.4
South Carolina	2,409.0	2,409.0	2,855.6	2,855.6	270.8	270.8	5,575.5	5,575.5	0.0	0.0	661.4	661.4	0.0	0.0	11,772.3	11,772.3
Virginia	5,414.4	3,846.2	3,894.1	3,879.1	557.5	557.5	4,621.9	5,543.5	0.0	0.0	2,340.3	2,340.3	0.0	0.0	16,828.2	16,166.6
West Virginia	0.0	0.0	1,071.3	1,071.3	0.0	0.0	13,081.0	14,273.6	0.0	0.0	11.0	11.0	0.0	0.0	14,163.3	15,355.9
East South Central	19,271.4	18,222.1	12,887.5	12,887.5	2,592.1	2,744.1	33,951.7	36,213.7	0.0	0.0	150.8	150.8	99.8	99.8	68,953.3	70,318.0
Alabama	9,391.3	9,391.3	2,530.6	2,530.6	189.3	189.3	10,074.4	10,746.4	0.0	0.0	42.6	42.6	99.8	99.8	22,328.0	23,000.0
Kentucky	891.0	0.0	4,870.6	4,870.6	0.0	0.0	13,503.7	15,093.7	0.0	0.0	11.9	11.9	0.0	0.0	19,277.2	19,976.2
Mississippi	7,586.1	7,427.8	1,716.9	1,716.9	2,381.6	2,533.6	2,526.0	2,526.0	0.0	0.0	43.1	43.1	0.0	0.0	14,253.7	14,247.4
Tennessee	1,403.0	1,403.0	3,769.4	3,769.4	21.2	21.2	7,847.6	7,847.6	0.0	0.0	53.2	53.2	0.0	0.0	13,094.4	13,094.4
West South Central	59,487.5	58,062.7	13,101.4	12,267.3	35,952.0	36,427.4	37,903.9	37,921.9	903.2	903.2	185.4	191.4	330.8	330.8	147,864.2	146,104.7
Arkansas	4,597.3	4,597.3	725.8	729.3	810.7	810.7	5,124.5	5,124.5	0.0	0.0	12.2	12.2	0.0	0.0	11,270.5	11,274.0
Louisiana	7,548.1	6,988.5	2,649.8	2,649.8	8,933.5	9,047.4	3,418.6	3,418.6	892.6	892.6	49.1	49.1	25.2	25.2	23,516.9	23,071.2
Oklahoma	7,216.1	7,144.4	1,316.7	1,194.7	5,369.6	5,381.1	5,257.3	5,257.3	0.0	0.0	74.4	74.4	0.0	0.0	19,234.1	19,051.9
Texas	40,126.0	39,332.5	8,409.1	7,693.5	20,838.2	21,188.2	24,103.5	24,121.5	10.6	10.6	49.7	55.7	305.6	305.6	93,842.7	92,707.6
Mountain	22,506.2	21,927.9	8,885.6	8,921.5	3,213.4	3,349.3	28,956.0	29,968.0	52.0	52.0	370.8	370.8	87.1	87.1	64,071.1	64,676.6
Arizona	9,867.3	9,888.7	2,367.6	2,367.6	1,177.6	1,177.6	5,910.0	6,170.0	0.0	0.0	90.5	90.5	0.0	0.0	19,413.0	19,694.4
Colorado	3,239.9	2,651.7	2,535.3	2,535.3	349.0	349.0	5,129.8	5,281.8	0.0	0.0	168.4	168.4	0.0	0.0	11,422.4	10,986.2
Idaho	568.5	568.5	562.1	557.5	4.3	4.3	17.2	17.2	0.0	0.0	5.4	5.4	0.0	0.0	1,157.5	1,152.9
Montana	0.0	0.0	321.6	362.1	54.0	54.0	2,289.1	2,419.1	52.0	52.0	0.0	0.0	1.5	1.5	2,718.2	2,888.7
Nevada	5,418.6	5,418.6	1,385.6	1,385.6	451.1	587.1	997.4	1,295.4	0.0	0.0	6.0	6.0	0.0	0.0	8,258.7	8,692.7
New Mexico	1,487.9	1,476.4	1,039.6	1,039.6	849.4	849.4	3,471.0	3,471.0	0.0	0.0	66.9	66.9	0.0	0.0	6,914.8	6,903.3
Utah	1,830.0	1,830.0	520.2	520.2	322.4	322.3	4,754.0	4,926.0	0.0	0.0	27.8	27.8	0.0	0.0	7,454.4	7,626.3
Wyoming	94.0	94.0	153.6	153.6	5.6	5.6	6,387.5	6,387.5	0.0	0.0	5.8	5.8	85.6	85.6	6,732.1	6,732.1
Pacific Contiguous	25,318.9	25,472.9	11,388.6	11,387.4	12,630.0	12,552.6	2,015.0	2,043.6	0.0	0.0	410.7	410.7	211.7	211.7	51,974.9	52,078.9
California	19,633.4	19,843.3	10,613.6	10,612.4	12,378.2	12,525.0	90.0	118.6	0.0	0.0	395.5	395.5	211.7	211.7	43,322.4	43,706.5
Oregon	2,916.6	2,916.6	133.8	133.8	224.2	0.0	585.0	585.0	0.0	0.0	0.0	0.0	0.0	0.0	3,859.6	3,635.4
Washington	2,768.9	2,713.0	641.2	641.2	27.6	27.6	1,340.0	1,340.0	0.0	0.0	15.2	15.2	0.0	0.0	4,792.9	4,737.0
Pacific Noncontiguous	561.2	565.2	527.8	527.8	175.0	10.0	286.1	286.1	0.0	0.0	2,575.1	2,570.0	6.4	6.4	4,131.6	3,965.5
Alaska	561.2	565.2	527.8	527.8	175.0	10.0	106.1	106.1	0.0	0.0	689.3	685.4	0.0	0.0	2,059.4	1,894.5
Hawaii	0.0	0.0	0.0	0.0	0.0	0.0	180.0	180.0	0.0	0.0	1,885.8	1,884.6	6.4	6.4	2,072.2	2,071.0
U.S. Total	234,320.5	227,588.1	124,837.3	124,926.9	79,195.5	79,113.8	285,965.1	299,649.4	2,190.2	2,190.2	38,102.8	39,144.2	1,914.3	1,914.3	766,525.7	774,526.9

Values for 2014 are final. Values for 2015 are preliminary.

NOTES:
Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this report. This exclusion may represent a significant portion of existing or planned capacity for some technologies such as solar photovoltaic generation.

Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2015

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2015	1	12647	ALLETE, Inc.	Electric Utility	Bison 4 Wind Energy Center	ND	58872	BISO4	205.0	Onshore Wind Turbine	WND	WT
2015	1	1307	Basin Electric Power Coop	Electric Utility	Lonesome Creek Station	ND	57943	02	40.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	1	1307	Basin Electric Power Coop	Electric Utility	Lonesome Creek Station	ND	57943	03	40.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	1	59275	CF SBC Master Tenant One LLC	IPP	Coronus Adelanto West 1	CA	59536	AWI	1.5	Solar Photovoltaic	SUN	PV
2015	1	59275	CF SBC Master Tenant One LLC	IPP	Coronus Adelanto West 2	CA	59537	AW2	1.5	Solar Photovoltaic	SUN	PV
2015	1	58871	Citizens Enterprises Corporation	IPP	Chicopee Granby Road Solar	MA	59626	PV1	1.6	Solar Photovoltaic	SUN	PV
2015	1	58871	Citizens Enterprises Corporation	IPP	Chicopee River Solar	MA	59625	PV1	2.0	Solar Photovoltaic	SUN	PV
2015	1	58871	Citizens Enterprises Corporation	IPP	Twiss Street Solar	MA	59624	PV1	1.5	Solar Photovoltaic	SUN	PV
2015	1	57391	Copper Mountain Solar 2, LLC	IPP	Copper Mountain Solar 2	NV	58017	PV04	30.0	Solar Photovoltaic	SUN	PV
2015	1	58790	Copper Mountain Solar 3, LLC	IPP	Copper Mountain Solar 3	NV	58915	10	21.0	Solar Photovoltaic	SUN	PV
2015	1	58790	Copper Mountain Solar 3, LLC	IPP	Copper Mountain Solar 3	NV	58915	9	24.0	Solar Photovoltaic	SUN	PV
2015	1	59176	Diamond Valley Solar LLC	IPP	Diamond Valley Solar Project	CA	59405	PV11	1.3	Solar Photovoltaic	SUN	PV
2015	1	3542	Duke Energy Ohio Inc	Electric Utility	Walter C Beckjord	OH	2830	BECK1	2.0	Batteries	MWH	BA
2015	1	58720	Enbridge	IPP	Keechi Wind	TX	58838	KW1	110.0	Onshore Wind Turbine	WND	WT
2015	1	56615	First Solar Project Development	Electric Utility	Meadow Lake Solar Energy Center	NM	59618	MLK	9.1	Solar Photovoltaic	SUN	PV
2015	1	10210	Ketchikan Public Utilities	Electric Utility	Whitman	AK	58977	WPG-1	3.9	Conventional Hydroelectric	WAT	HY
2015	1	10210	Ketchikan Public Utilities	Electric Utility	Whitman	AK	58977	WPG-2	0.9	Conventional Hydroelectric	WAT	HY
2015	1	56990	NJR Clean Energy Ventures Corporation	IPP	Carroll Area Wind Farm	IA	59071	WT 1	20.0	Onshore Wind Turbine	WND	WT
2015	1	56990	NJR Clean Energy Ventures Corporation	IPP	North Run	NJ	59318	NRUN1	5.0	Solar Photovoltaic	SUN	PV
2015	1	58489	OCI Solar Power	IPP	OCI Alamo 3 LLC	TX	59204	OCIA3	5.5	Solar Photovoltaic	SUN	PV
2015	1	15248	Portland General Electric Co	Electric Utility	Port Westward Unit 2	OR	58266	9	18.5	Natural Gas Internal Combustion Engine	NG	IC
2015	1	15477	Public Service Elec & Gas Co	Electric Utility	Kinsley Landfill Solar	NJ	58877	KINS	8.6	Solar Photovoltaic	SUN	PV
2015	1	15477	Public Service Elec & Gas Co	Electric Utility	Parkland Landfill Solar	NJ	59001	PARK	7.8	Solar Photovoltaic	SUN	PV
2015	1	59121	Pumpjack Solar I, LLC	IPP	Pumpjack Solar I	CA	59322	GEN1	20.0	Solar Photovoltaic	SUN	PV
2015	1	59040	Rising Tree Wind Farm II LLC	IPP	Rising Tree Wind Farm II	CA	59235	GEN1	19.8	Onshore Wind Turbine	WND	WT
2015	1	56937	Rising Tree Wind Farm LLC	IPP	Rising Tree Wind Farm	CA	57621	GEN1	79.2	Onshore Wind Turbine	WND	WT
2015	1	58820	Shankle Solar Center LLC	IPP	Shankle Solar Center LLC	NC	58956	SHAN	4.8	Solar Photovoltaic	SUN	PV
2015	1	59454	Solscient Energy, LLC	Industrial	GM Lordstown Assembly Solar Array	OH	59683	12345	1.7	Solar Photovoltaic	SUN	PV
2015	1	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #17	CA	57231	S017A	0.5	Solar Photovoltaic	SUN	PV
2015	1	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #17	CA	57231	S017B	0.5	Solar Photovoltaic	SUN	PV
2015	1	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #17	CA	57231	S017C	0.5	Solar Photovoltaic	SUN	PV
2015	1	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #17	CA	57231	S017D	0.5	Solar Photovoltaic	SUN	PV
2015	1	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #17	CA	57231	S017E	0.5	Solar Photovoltaic	SUN	PV
2015	1	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #17	CA	57231	S017F	0.5	Solar Photovoltaic	SUN	PV
2015	1	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #17	CA	57231	S017G	0.5	Solar Photovoltaic	SUN	PV
2015	1	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #33	CA	57535	S33A	0.5	Solar Photovoltaic	SUN	PV
2015	1	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #33	CA	57535	S33B	0.5	Solar Photovoltaic	SUN	PV
2015	1	58258	SunRay Power LLC	IPP	Leicester One MA Solar LLC	MA	58282	1	6.0	Solar Photovoltaic	SUN	PV
2015	2	58519	Clean Energy Collective LLC	IPP	Midwest Energy Community Solar Array	KS	59632	1036	1.0	Solar Photovoltaic	SUN	PV
2015	2	57391	Copper Mountain Solar 2, LLC	IPP	Copper Mountain Solar 2	NV	58017	PV05	30.0	Solar Photovoltaic	SUN	PV
2015	2	56615	First Solar Project Development	Electric Utility	Cibola	NM	59619	CBLA	7.6	Solar Photovoltaic	SUN	PV
2015	2	59458	Landfill Energy Systems Florida	IPP	Sarasota County LFGTE Facility	FL	59686	LESF1	1.6	Landfill Gas	LFG	IC
2015	2	59458	Landfill Energy Systems Florida	IPP	Sarasota County LFGTE Facility	FL	59686	LESF2	1.6	Landfill Gas	LFG	IC
2015	2	59458	Landfill Energy Systems Florida	IPP	Sarasota County LFGTE Facility	FL	59686	LESF3	1.6	Landfill Gas	LFG	IC
2015	2	59458	Landfill Energy Systems Florida	IPP	Sarasota County LFGTE Facility	FL	59686	LESF4	1.6	Landfill Gas	LFG	IC
2015	2	11208	Los Angeles Department of Water & Power	IPP	Forever 21 Retail, Inc.	CA	59651	W4161	4.6	Solar Photovoltaic	SUN	PV
2015	2	11824	Matanuska Electric Assn Inc	Electric Utility	Eklutna Generation Station	AK	58989	EGS07	16.5	Natural Gas Internal Combustion Engine	NG	IC
2015	2	11824	Matanuska Electric Assn Inc	Electric Utility	Eklutna Generation Station	AK	58989	EGS08	16.5	Natural Gas Internal Combustion Engine	NG	IC
2015	2	11824	Matanuska Electric Assn Inc	Electric Utility	Eklutna Generation Station	AK	58989	EGS09	16.5	Natural Gas Internal Combustion Engine	NG	IC
2015	2	11824	Matanuska Electric Assn Inc	Electric Utility	Eklutna Generation Station	AK	58989	EGS10	16.5	Natural Gas Internal Combustion Engine	NG	IC
2015	2	58377	MidAmerican Solar LLC	IPP	Solar Star 1	CA	58388	SS12	52.6	Solar Photovoltaic	SUN	PV
2015	2	59208	NRG Solar Las Vegas MB-1	Commercial	NRG Solar Las Vegas MB-1	NV	59430	MB-1	5.0	Solar Photovoltaic	SUN	PV
2015	2	34691	Ormat Nevada Inc	IPP	McGinness Hills	NV	57446	OEC21	12.0	Geothermal	GEO	BT
2015	2	34691	Ormat Nevada Inc	IPP	McGinness Hills	NV	57446	OEC22	12.0	Geothermal	GEO	BT
2015	2	34691	Ormat Nevada Inc	IPP	McGinness Hills	NV	57446	OEC23	6.0	Geothermal	GEO	BT
2015	2	59424	SSA Solar of NM 4, LLC	IPP	City of Truth or Consequences PV	NM	59653	COTC	1.9	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #11	CA	57225	S011A	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #11	CA	57225	S011B	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #11	CA	57225	S011C	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #11	CA	57225	S011D	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #11	CA	57225	S011E	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #11	CA	57225	S011F	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #11	CA	57225	S011G	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #13	CA	57227	S013A	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #13	CA	57227	S013B	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #13	CA	57227	S013C	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #13	CA	57227	S013D	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #13	CA	57227	S013E	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #13	CA	57227	S013F	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #13	CA	57227	S013G	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #16	CA	57230	S016A	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #16	CA	57230	S016B	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #16	CA	57230	S016C	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #26	CA	57245	S026A	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #26	CA	57245	S026B	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #26	CA	57245	S026C	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #26	CA	57245	S026D	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #26	CA	57245	S026E	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #26	CA	57245	S026F	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #26	CA	57245	S026G	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #26	CA	57245	S026H	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #26	CA	57245	S026I	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #26	CA	57245	S026J	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #26	CA	57245	SO26K	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #26	CA	57245	SO26L	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #27	CA	57246	S027A	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #27	CA	57246	S027B	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #27	CA	57246	S027C	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #27	CA	57246	S027D	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #28	CA	57247	S028A	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #28	CA	57247	S028B	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #28	CA	57247	S028C	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #28	CA	57247	S028D	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #28	CA	57247	S028E	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #28	CA	57247	S028F	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #28	CA	57247	S028G	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #32	CA	57534	S32A	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #32	CA	57534	S32B	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #32	CA	57534	S32C	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #44	CA	57540	S44A	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #44	CA	57540	S44B	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #44	CA	57540	S44C	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #44	CA	57540	S44D	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #44	CA	57540	S44E	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #44	CA	57540	S44F	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #44	CA	57540	S44G	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #44	CA	57540	S44H	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #44	CA	57540	S44I	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #44	CA	57540	S44J	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #44	CA	57540	S44K	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #44	CA	57540	S44L	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #44	CA	57540	S44M	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #44	CA	57540	S44N	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #44	CA	57540	S44O	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #44	CA	57540	S44P	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #48	CA	57900	S48A	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #48	CA	57900	S48B	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #48	CA	57900	S48C	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #48	CA	57900	S48D	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #48	CA	57900	S48E	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #48	CA	57900	S48F	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #48	CA	57900	S48G	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #48	CA	57900	S48H	0.5	Solar Photovoltaic	SUN	PV

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2015

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #48	CA	57900	S48I	0.5	Solar Photovoltaic	SUN	PV
2015	2	17609	Southern California Edison Co	Electric Utility	Solar Photovoltaic Project #48	CA	57900	S48J	0.5	Solar Photovoltaic	SUN	PV
2015	2	59158	Wildwood Solar I, LLC	IPP	Wildwood Solar I, LLC	CA	59380	WLD1	19.5	Solar Photovoltaic	SUN	PV
2015	3	59307	Ashley Solar Farm, LLC	IPP	Ashley Solar Farm	NC	59566	PV1	4.0	Solar Photovoltaic	SUN	PV
2015	3	58748	Clean Energy LLC	Electric CHP	Reventure Park	NC	58865	RNG	1.6	Landfill Gas	LFG	IC
2015	3	5701	El Paso Electric Co	Electric Utility	Montana Power Station	TX	58562	GT-1	100.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	3	5701	El Paso Electric Co	Electric Utility	Montana Power Station	TX	58562	GT-2	100.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	3	57104	Golden Springs Development Company LLC	IPP	Santa Fe Springs Rooftop Solar BLDG H	CA	58913	1	1.5	Solar Photovoltaic	SUN	PV
2015	3	57104	Golden Springs Development Company LLC	IPP	Santa Fe Springs Rooftop Solar BLDG M	CA	58912	1	1.8	Solar Photovoltaic	SUN	PV
2015	3	58865	Hoopeston Wind LLC	IPP	Hoopeston Wind LLC	IL	59021	HOO1	98.0	Onshore Wind Turbine	WND	WT
2015	3	49893	Invenergy Services LLC	IPP	Grand Ridge Battery Projects	IL	59957	GRES	31.5	Batteries	MWH	BA
2015	3	59284	Kona Solar, LLC	IPP	Park Meridian #1	CA	59539	1	1.5	Solar Photovoltaic	SUN	PV
2015	3	59284	Kona Solar, LLC	IPP	Terra Francesco	CA	59541	3	1.5	Solar Photovoltaic	SUN	PV
2015	3	58598	Mass Solar, LLC	IPP	Braley Road 2	MA	58680	PV1	2.7	Solar Photovoltaic	SUN	PV
2015	3	58598	Mass Solar, LLC	IPP	Freetown Solar	MA	58283	1	5.0	Solar Photovoltaic	SUN	PV
2015	3	59358	REUT Origination, LLC	IPP	South Milford Solar Plant	UT	59620	SMS1	2.9	Solar Photovoltaic	SUN	PV
2015	3	58920	Redmon Solar Farm LLC	IPP	Redmon Solar Farm LLC	NC	59114	1	2.0	Solar Photovoltaic	SUN	PV
2015	3	58749	Rentech Nitrogen Pasadena LLC	Electric CHP	Rentech Nitrogen Pasadena Cogeneration	TX	58870	MG202	14.0	All Other	WH	ST
2015	3	59660	Solar Star California XXXII, LLC	Commercial	UC Davis South Campus	CA	59872	UCD1	13.0	Solar Photovoltaic	SUN	PV
2015	3	57313	SolarCity Corporation	IPP	Millbrook School	NY	59789	PV1	1.4	Solar Photovoltaic	SUN	PV
2015	3	59519	TerraForm Solar XVII, LLC	IPP	BlueWave Capital - Grafton (SREC II)	MA	59752	1	1.3	Solar Photovoltaic	SUN	PV
2015	3	58361	Triton College	Commercial	Triton East and West Cogen	IL	58375	5	0.4	Natural Gas Internal Combustion Engine	NG	IC
2015	3	59298	Vega Solar, LLC	IPP	Vega Solar	CA	59555	VEGA1	20.0	Solar Photovoltaic	SUN	PV
2015	4	59359	BHE Renewables, LLC	IPP	TX Jumbo Road Wind	TX	59621	JRWND	299.7	Onshore Wind Turbine	WND	WT
2015	4	59503	Capital Dynamics	IPP	Green Pastures Wind I	TX	59732	GPI	150.0	Onshore Wind Turbine	WND	WT
2015	4	19454	City of Unalaska - (AK)	Electric Utility	Dutch Harbor	AK	7502	12	3.7	Petroleum Liquids	DFO	IC
2015	4	58519	Clean Energy Collective LLC	IPP	Sunnyside Ranch Community Solar Array	CO	59742	HCE	2.0	Solar Photovoltaic	SUN	PV
2015	4	59346	Colton Solar Two, LLC	IPP	Colton Solar Two, LLC	CA	59598	CS002	1.0	Solar Photovoltaic	SUN	PV
2015	4	58304	Constellation Solar Maryland II LLC	IPP	CNE at Cambridge MD	MD	59842	PV1	3.2	Solar Photovoltaic	SUN	PV
2015	4	59289	Everetts Wildcat Solar, LLC	IPP	Everetts Wildcat Solar, LLC	NC	59549	EVER1	5.0	Solar Photovoltaic	SUN	PV
2015	4	59284	Kona Solar, LLC	IPP	Rancho Cucamonga Dist #1	CA	59540	2	1.8	Solar Photovoltaic	SUN	PV
2015	4	59119	Los Vientos Windpower III, LLC	IPP	Los Vientos Windpower III	TX	59320	GEN1	2.0	Onshore Wind Turbine	WND	WT
2015	4	58863	Main Street Power	IPP	Arizona Western College PV	AZ	57765	SOLEG	1.0	Solar Photovoltaic	SUN	PV
2015	4	11824	Matanuska Electric Assn Inc	Electric Utility	Eklutna Generation Station	AK	58989	EGS01	16.5	Natural Gas Internal Combustion Engine	NG	IC
2015	4	11824	Matanuska Electric Assn Inc	Electric Utility	Eklutna Generation Station	AK	58989	EGS02	16.5	Natural Gas Internal Combustion Engine	NG	IC
2015	4	11824	Matanuska Electric Assn Inc	Electric Utility	Eklutna Generation Station	AK	58989	EGS03	16.5	Natural Gas Internal Combustion Engine	NG	IC
2015	4	11824	Matanuska Electric Assn Inc	Electric Utility	Eklutna Generation Station	AK	58989	EGS04	16.5	Natural Gas Internal Combustion Engine	NG	IC
2015	4	11824	Matanuska Electric Assn Inc	Electric Utility	Eklutna Generation Station	AK	58989	EGS05	16.5	Natural Gas Internal Combustion Engine	NG	IC
2015	4	11824	Matanuska Electric Assn Inc	Electric Utility	Eklutna Generation Station	AK	58989	EGS06	16.5	Natural Gas Internal Combustion Engine	NG	IC
2015	4	59600	Mohave Sunrise Solar I, LLC	IPP	Mohave Electric at Fort Mohave	AZ	59819	PV1	4.4	Solar Photovoltaic	SUN	PV
2015	4	14077	Oklahoma Municipal Power Authority	Electric Utility	Charles D. Lamb Energy Center	OK	58325	1	122.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	4	5624	RED-Rochester, LLC	Industrial	RED-Rochester, LLC	NY	10025	75TG	2.2	Conventional Steam Coal	BIT	ST
2015	4	59529	Robeson County Landfill	Commercial	Robeson County LFG to Energy	NC	59763	GEN02	1.0	Landfill Gas	LFG	IC
2015	4	59352	Soul City Solar	IPP	Soul City Solar	NC	59606	FLS1	3.5	Solar Photovoltaic	SUN	PV
2015	4	17650	Southern Power Co	IPP	Lost Hills/Blackwell	CA	58711	BLKW	12.0	Solar Photovoltaic	SUN	PV
2015	4	17650	Southern Power Co	IPP	Lost Hills/Blackwell	CA	58711	LTHL	20.0	Solar Photovoltaic	SUN	PV
2015	4	18000	State of Rhode Island	Commercial	Central Power Plant	RI	50621	GEN7	2.0	Natural Gas Internal Combustion Engine	NG	IC
2015	4	57355	Stephens Ranch Wind Energy LLC	IPP	Stephens Ranch Wind Energy LLC	TX	57983	2	165.0	Onshore Wind Turbine	WND	WT
2015	4	59131	Sumitomo Corporation of the Americas	IPP	Mesquite Creek Wind	TX	59332	MSCRK	211.2	Onshore Wind Turbine	WND	WT
2015	4	59455	Venable Solar, LLC	IPP	Venable Solar 1	CA	58289	VNPV	1.5	Solar Photovoltaic	SUN	PV
2015	4	59455	Venable Solar, LLC	IPP	Venable Solar 2	CA	58290	VSPV	1.5	Solar Photovoltaic	SUN	PV
2015	4	59156	Wapsie Valley Creamery	Industrial	Wapsie Valley Creamery Back Up Generator	IA	59379	1	1.1	Petroleum Liquids	DFO	IC
2015	4	20542	Weyerhaeuser Co	Industrial	Flint River Operations	GA	50465	GEN2	25.0	Wood/Wood Waste Biomass	WDS	ST
2015	4	58919	Yanceyville Farm 2 LLC	IPP	Yanceyville Farm 2 LLC	NC	59113	1	5.0	Solar Photovoltaic	SUN	PV
2015	5	59236	Alamo Solar, LLC	IPP	Alamo Solar	CA	59469	ALAMO	18.7	Solar Photovoltaic	SUN	PV
2015	5	221	Alaska Village Elec Coop, Inc	Electric Utility	St. Michael	AK	57061	4	0.7	Petroleum Liquids	JF	IC
2015	5	59050	Algonquin Power Co	IPP	Algonquin SKIC20 Solar LLC	CA	59412	SKI20	20.0	Solar Photovoltaic	SUN	PV
2015	5	57369	Apple, Inc	Commercial	Ft. Churchill PV	NV	59472	NVC7	19.9	Solar Photovoltaic	SUN	PV
2015	5	57421	BayWa r.e Wind LLC	IPP	Beethoven Wind	SD	59187	B&H80	80.0	Onshore Wind Turbine	WND	WT
2015	5	56769	Consolidated Edison Development Inc.	IPP	Atwell Island West Solar	CA	59414	AWCA	20.0	Solar Photovoltaic	SUN	PV
2015	5	56769	Consolidated Edison Development Inc.	IPP	Corcoran Solar 2	CA	59413	C2CA	19.8	Solar Photovoltaic	SUN	PV
2015	5	59393	Coronal Lost Hills, LLC	IPP	Coronal Lost Hills	CA	59638	CLH	20.0	Solar Photovoltaic	SUN	PV
2015	5	59288	Creswell Alligood Solar, LLC	IPP	Creswell Alligood Solar, LLC	NC	59548	CRES1	14.0	Solar Photovoltaic	SUN	PV
2015	5	58443	EBD Hydro LLC	IPP	45 Mile Hydroelectric Project	OR	58455	0001	1.0	Conventional Hydroelectric	WAT	HY
2015	5	58443	EBD Hydro LLC	IPP	45 Mile Hydroelectric Project	OR	58455	0002	1.0	Conventional Hydroelectric	WAT	HY
2015	5	58443	EBD Hydro LLC	IPP	45 Mile Hydroelectric Project	OR	58455	0003	1.0	Conventional Hydroelectric	WAT	HY
2015	5	57170	EDF Renewable Asset Holdings, Inc.	IPP	City of Corcoran Solar	CA	59087	GEN 1	11.0	Solar Photovoltaic	SUN	PV
2015	5	57170	EDF Renewable Asset Holdings, Inc.	IPP	Goose Lake Solar	CA	59086	GEN1	12.0	Solar Photovoltaic	SUN	PV
2015	5	57170	EDF Renewable Asset Holdings, Inc.	IPP	Longhorn Wind	TX	58772	GEN1	200.0	Onshore Wind Turbine	WND	WT
2015	5	59407	FLS Solar 230 (Warren)	IPP	FLS Solar 230 (Warren)	NC	59646	FLS1	4.8	Solar Photovoltaic	SUN	PV
2015	5	49893	Invenergy Services LLC	IPP	Nelson Energy Center	IL	55183	CT1	155.7	Natural Gas Fired Combined Cycle	NG	CT
2015	5	49893	Invenergy Services LLC	IPP	Nelson Energy Center	IL	55183	CT2	155.7	Natural Gas Fired Combined Cycle	NG	CT
2015	5	49893	Invenergy Services LLC	IPP	Nelson Energy Center	IL	55183	ST1	129.6	Natural Gas Fired Combined Cycle	NG	CA
2015	5	49893	Invenergy Services LLC	IPP	Nelson Energy Center	IL	55183	ST2	129.6	Natural Gas Fired Combined Cycle	NG	CA
2015	5	59287	Laurel Capital Partners	IPP	DD Hay Road Solar 23 LLC	DE	59715	PV1	1.2	Solar Photovoltaic	SUN	PV
2015	5	59406	Mt. Olive Solar 1	IPP	Mt Olive Solar 1	NC	59645	FLS1	5.0	Solar Photovoltaic	SUN	PV
2015	5	57377	PPG - O&M Panda Temple Power LLC	IPP	Panda Temple Power Station	TX	58001	CTG-3	204.0	Natural Gas Fired Combined Cycle	NG	CT
2015	5	57377	PPG - O&M Panda Temple Power LLC	IPP	Panda Temple Power Station	TX	58001	CTG-4	204.0	Natural Gas Fired Combined Cycle	NG	CT
2015	5	57377	PPG - O&M Panda Temple Power LLC	IPP	Panda Temple Power Station	TX	58001	STG-2	309.0	Natural Gas Fired Combined Cycle	NG	CA
2015	5	59183	Shafter Solar LLC	IPP	Shafter Solar LLC	CA	59408	1	20.0	Solar Photovoltaic	SUN	PV
2015	5	59638	SolNCPower5, LLC	IPP	SolNCPower5, LLC	NC	59857	BAT1	5.0	Solar Photovoltaic	SUN	PV
2015	5	17826	Springer Electric Coop, Inc	Electric Utility	Springer Solar 1	NM	59560	SPRG1	0.8	Solar Photovoltaic	SUN	PV
2015	5	59350	Stagecoach Solar	IPP	Stagecoach Solar	NC	59604	FLS1	5.0	Solar Photovoltaic	SUN	PV
2015	5	59457	Sun Harvest Solar, LLC	IPP	Sun Harvest Solar NDP1	CA	59687	NDP1	1.5	Solar Photovoltaic	SUN	PV
2015	5	59351	Vicksburg Solar	IPP	Vicksburg Solar	NC	59605	FLS1	5.0	Solar Photovoltaic	SUN	PV
2015	6	221	Alaska Village Elec Coop, Inc	Electric Utility	Noatak	AK	57051	5A	0.5	Petroleum Liquids	JF	IC
2015	6	59345	Colton Solar One, LLC	IPP	Colton Solar One, LLC	CA	59597	CS001	2.5	Solar Photovoltaic	SUN	PV
2015	6	4161	Constellation Power Source Gen	IPP	Perryman	MD	1556	GT6	109.8	Natural Gas Fired Combustion Turbine	NG	GT
2015	6	58862	DC Water	Electric CHP	DC Water CHP	DC	59012	TURB1	3.3	Other Waste Biomass	OBG	GT
2015	6	58862	DC Water	Electric CHP	DC Water CHP	DC	59012	TURB2	3.3	Other Waste Biomass	OBG	GT
2015	6	59380	Enel Green Power NA, Inc.	IPP	Osage Wind, LLC	OK	58683	1	150.4	Onshore Wind Turbine	WND	WT
2015	6	59745	First Solar Asset Management	IPP	Barilla Solar	TX	58710	BRLA	30.2	Solar Photovoltaic	SUN	PV
2015	6	59612	GES MegaOne LLC	IPP	Indy Grocers	IN	59834	INGRO	1.0	Solar Photovoltaic	SUN	PV
2015	6	56691	Garrison Energy Center LLC	IPP	Garrison Energy Center LLC	DE	57349	CTG1	183.0	Natural Gas Fired Combined Cycle	NG	CT
2015	6	56691	Garrison Energy Center LLC	IPP	Garrison Energy Center LLC	DE	57349	STG2	126.0	Natural Gas Fired Combined Cycle	NG	CA
2015	6	7349	Golden Spread Electric Cooperative, Inc	Electric Utility	Elk Station	TX	58835	ELK1	189.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	6	59636	HP Hood LLC	Industrial	HP Hood CT	VA	59860	HHOOD	15.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	6	59433	Imperial Valley Solar Co (IVSC) 2, LLC	IPP	Imperial Valley Solar Co (IVSC) 2	CA	59657	IVSC2	20.0	Solar Photovoltaic	SUN	PV
2015	6	11249	Louisville Gas & Electric Co	Electric Utility	Cane Run	KY	1363	7	642.0	Natural Gas Fired Combined Cycle	NG	CC
2015	6	58822	MC Power Companies Inc	IPP	Macon Solar Power Project	MO	59729	MSF1	2.8	Solar Photovoltaic	SUN	PV
2015	6	12411	Miami Dade Water & Sewer Dept	Commercial	Central District Wastewater Treat Plant	FL	54623	5	1.2	Other Waste Biomass	OBG	IC
2015	6	12411	Miami Dade Water & Sewer Dept	Commercial	Central District Wastewater Treat Plant	FL	54623	6	1.2	Other Waste Biomass	OBG	IC
2015	6	12341	MidAmerican Energy Co	Electric Utility	Highland Wind Project (IA)	IA	58883	HLWF	15.5	Onshore Wind Turbine	WND	WT
2015	6	58377	MidAmerican Solar LLC	IPP	Solar Star 1	CA	58388	SS11	52.6	Solar Photovoltaic	SUN	PV
2015	6	58377	MidAmerican Solar LLC	IPP	Solar Star 1	CA	58388	SS14	32.2	Solar Photovoltaic	SUN	PV
2015	6	58377	MidAmerican Solar LLC	IPP	Solar Star 2	CA	58389	SS24	44.0	Solar Photovoltaic	SUN	PV
2015	6	12670	Missouri Jnt Muni.Pwr Elec. Ut. Comm.	Electric Utility	Fredericktown Energy Center	MO	57946	UNIT1	12.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	6	12670	Missouri Jnt Muni.Pwr Elec. Ut. Comm.	Electric Utility	Fredericktown Energy Center	MO	57946	UNIT2	12.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	6	56990	NJR Clean Energy Ventures Corporation	IPP	Harmony	NJ	59627	HRMNY	3.0	Solar Photovoltaic	SUN	PV
2015	6	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	9A	122.0	Conventional Hydroelectric	WAT	HY
2015	6	59042	Rising Tree Wind Farm III LLC	IPP	Rising Tree Wind Farm III	CA	59236	GEN1	99.0	Onshore Wind Turbine	WND	WT
2015	6	59202	SolNCPower1, LLC	IPP	Two Mile Solar	NC	59427	TMS1	5.0	Solar Photovoltaic	SUN	PV
2015	6	17650	Southern Power Co	IPP	North Star Solar	CA	58713	NSTR	62.5	Solar Photovoltaic	SUN	PV
2015	6	58414	Victor Dry Farm Ranch	IPP	Victor Dry Farm Ranch A	CA	58418	1	5.0	Solar Photovoltaic	SUN	PV
2015	6	58414	Victor Dry Farm Ranch	IPP	Victor Dry Farm Ranch B	CA	58419	1	5.0	Solar Photovoltaic	SUN	PV
2015	6	20214	Waverly Municipal Elec Utility	Electric Utility	Waverly Municipal Electric North Plant	IA	6554	17	1.8	Petroleum Liquids	DFO	IC
2015	6	20214	Waverly Municipal Elec Utility	Electric Utility	Waverly Municipal Electric North Plant	IA	6554	18	1.8	Petroleum Liquids	DFO	IC
2015	6	20214	Waverly Municipal Elec Utility	Electric Utility	Waverly Municipal Electric North Plant	IA	6554	19	1.8	Petroleum Liquids	DFO	IC
2015	6	20214	Waverly Municipal Elec Utility	Electric Utility	Waverly Municipal Electric North Plant	IA	6554	20	1.8	Petroleum Liquids	DFO	IC
2015	6	59332	Yadkin 601 Farm, LLC	IPP	Yadkin 601 Farm	NC	59587	PV1	3.0	Solar Photovoltaic	SUN	PV
2015	7	59652	Adams Community Solar Garden III LLC	IPP	Adams Community Solar Garden III LLC	CO	59850	23376	1.2	Solar Photovoltaic	SUN	PV
2015	7	59651	Adams Community Solar Garden LLC	IPP	Adams Community Solar Garden LLC	CO	59849	23377	1.2	Solar Photovoltaic	SUN	PV
2015	7	59212	Adelanto Solar II, LLC	IPP	Adelanto Solar II, LLC	CA	59440	SAS	7.0	Solar Photovoltaic	SUN	PV

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2015

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2015	7	59674	Albertson Solar LLC	IPP	Albertson Solar LLC	NC	59901	ALBRT	5.0	Solar Photovoltaic	SUN	PV
2015	7	59711	Bakersfield 111 LLC	IPP	Bakersfield 111	CA	59948	BF111	1.4	Solar Photovoltaic	SUN	PV
2015	7	57365	Consolidated Edison Solutions Inc	IPP	Port Richmond WWT Solar	NY	58647	1	1.0	Solar Photovoltaic	SUN	PV
2015	7	58862	DC Water	Electric CHP	DC Water CHP	DC	59012	TURB3	3.3	Other Waste Biomass	OBG	GT
2015	7	57170	EDF Renewable Asset Holdings, Inc.	IPP	Catalina Solar 2, LLC	CA	59334	INV-1	18.0	Solar Photovoltaic	SUN	PV
2015	7	59381	EE Kettleman California LLC	IPP	Kettleman Solar -Centaurus	CA	59633	KS	20.0	Solar Photovoltaic	SUN	PV
2015	7	59276	ESA Four Oaks NC 1, LLC	IPP	4Oaks	NC	59534	4OAKS	5.0	Solar Photovoltaic	SUN	PV
2015	7	59277	ESA Princeton NC, LLC	IPP	Princeton	NC	59533	PRCTN	5.0	Solar Photovoltaic	SUN	PV
2015	7	59132	Faison Solar LLC	IPP	Faison Solar	NC	59333	FAIS1	2.0	Solar Photovoltaic	SUN	PV
2015	7	59155	First Wind O&M, LLC	IPP	Laho Solar Plant	UT	58602	LSP1	3.0	Solar Photovoltaic	SUN	PV
2015	7	59155	First Wind O&M, LLC	IPP	Milford Flat Solar Plant	UT	58601	MFSP1	3.0	Solar Photovoltaic	SUN	PV
2015	7	59209	Half Moon Ventures, LLC	IPP	Johnston Solar	RI	59858	JSI01	1.0	Solar Photovoltaic	SUN	PV
2015	7	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Tell City Solar Park	IN	59482	STELL	1.0	Solar Photovoltaic	SUN	PV
2015	7	12807	Michigan South Central Pwr Agy	Electric Utility	Coldwater Peaking Plant	MI	59467	GEN1	4.3	Natural Gas Internal Combustion Engine	NG	IC
2015	7	12807	Michigan South Central Pwr Agy	Electric Utility	Coldwater Peaking Plant	MI	59467	GEN2	4.3	Natural Gas Internal Combustion Engine	NG	IC
2015	7	12807	Michigan South Central Pwr Agy	Electric Utility	Coldwater Peaking Plant	MI	59467	GEN3	4.3	Natural Gas Internal Combustion Engine	NG	IC
2015	7	12341	MidAmerican Energy Co	Electric Utility	Highland Wind Project (IA)	IA	58883	HLWF2	95.4	Onshore Wind Turbine	WND	WT
2015	7	59279	Nitro Solar, LLC	IPP	Nitro Solar	NC	59501	NITRO	5.0	Solar Photovoltaic	SUN	PV
2015	7	59650	Pikes Peak Solar Garden 1 LLC	IPP	Pikes Peak Solar Garden 1 LLC	CO	59848	PPSG1	2.0	Solar Photovoltaic	SUN	PV
2015	7	59706	Rattlesnake Den	IPP	Rattlesnake Den	TX	59943	1	207.2	Onshore Wind Turbine	WND	WT
2015	7	22142	Santa Cruz Cogeneration Assoc	Commercial	Univ of Calif Santa Cruz Cogeneration	CA	50064	003	4.4	Natural Gas Fired Combustion Turbine	NG	GT
2015	7	59278	Sarah Solar, LLC	IPP	Sarah Solar	NC	59500	SARAH	5.0	Solar Photovoltaic	SUN	PV
2015	7	17445	Solid Waste Auth of Palm Beach	Electric Utility	Palm Beach Renewable Energy Facility#2	FL	57898	GEN2	85.0	Municipal Solid Waste	MSW	ST
2015	8	59353	AP North Lake I, LP	IPP	AP North Lake I, LP	CA	59610	APNLI	20.0	Solar Photovoltaic	SUN	PV
2015	8	58770	Balko Wind LLC	IPP	Balko Wind LLC	OK	58900	BAL1	299.7	Onshore Wind Turbine	WND	WT
2015	8	59382	Border Winds Energy, LLC	IPP	Border Winds Wind Farm	ND	59200	1	150.0	Onshore Wind Turbine	WND	WT
2015	8	59251	Brigham Young Univ Idaho	Commercial	BYUI Central Energy Facility	ID	59496	ST601	4.6	Natural Gas Fired Combustion Turbine	NG	GT
2015	8	59604	Bulldog Energy Airport LLC	IPP	INDY III	IN	59823	INDY3	2.5	Solar Photovoltaic	SUN	PV
2015	8	57170	EDF Renewable Asset Holdings, Inc.	IPP	Pilot Hill Wind Farm	IL	58898	K4-1	175.0	Onshore Wind Turbine	WND	WT
2015	8	59155	First Wind O&M, LLC	IPP	Beryl Solar Plant	UT	58598	BSP1	3.0	Solar Photovoltaic	SUN	PV
2015	8	59155	First Wind O&M, LLC	IPP	Granite Peak Solar Plant	UT	58604	GPSP1	3.0	Solar Photovoltaic	SUN	PV
2015	8	59155	First Wind O&M, LLC	IPP	Route 66 Wind Plant	TX	58681	RT661	150.0	Onshore Wind Turbine	WND	WT
2015	8	59304	Foxfire Farm, LLC	IPP	Foxfire Solar Farm	NC	59563	PV1	5.0	Solar Photovoltaic	SUN	PV
2015	8	6915	Galena Electric Utility	Electric Utility	Galena Electric Utility	AK	7437	2A	0.4	Petroleum Liquids	DFO	IC
2015	8	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Peru Solar Park	IN	59481	SPERU	3.0	Solar Photovoltaic	SUN	PV
2015	8	49893	Invenergy Services LLC	IPP	Buckeye Wind Energy Center	KS	58767	1	205.7	Onshore Wind Turbine	WND	WT
2015	8	49893	Invenergy Services LLC	IPP	Ector County Energy Center	TX	58471	CTG1	163.3	Natural Gas Fired Combustion Turbine	NG	GT
2015	8	49893	Invenergy Services LLC	IPP	Ector County Energy Center	TX	58471	CTG2	163.3	Natural Gas Fired Combustion Turbine	NG	GT
2015	8	10071	Kauai Island Utility Cooperative	Electric Utility	KRS I Anahola Solar	HI	58639	ANAPV	12.0	Solar Photovoltaic	SUN	PV
2015	8	59354	LKL BLBD, LLC	IPP	LKL BLBD, LLC	FL	59611	LKLBB	6.0	Solar Photovoltaic	SUN	PV
2015	8	58451	McCoy Solar, LLC	IPP	McCoy Solar Energy Project	CA	58462	BLK8	36.5	Solar Photovoltaic	SUN	PV
2015	8	12341	MidAmerican Energy Co	Electric Utility	Highland Wind Project (IA)	IA	58883	HLWF3	84.3	Onshore Wind Turbine	WND	WT
2015	8	59394	NextEra Energy Resources Breckinridge	IPP	Breckinridge Wind Project LLC	OK	58994	BWP	98.8	Onshore Wind Turbine	WND	WT
2015	8	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	SLR1	2.5	Solar Photovoltaic	SUN	PV
2015	8	56545	Pattern Operators LP	IPP	Logans Gap Wind LLC	TX	59442	1	200.1	Onshore Wind Turbine	WND	WT
2015	8	59383	Pleasant Valley Wind, LLC	IPP	Pleasant Valley Wind Farm	MN	59201	1	200.0	Onshore Wind Turbine	WND	WT
2015	8	15466	Public Service Co of Colorado	Electric Utility	Cherokee	CO	469	5	173.4	Natural Gas Fired Combined Cycle	NG	CT
2015	8	15466	Public Service Co of Colorado	Electric Utility	Cherokee	CO	469	6	173.4	Natural Gas Fired Combined Cycle	NG	CT
2015	8	15466	Public Service Co of Colorado	Electric Utility	Cherokee	CO	469	7	241.4	Natural Gas Fired Combined Cycle	NG	CA
2015	8	59146	Red Horse 2	IPP	Red Horse 2	AZ	58833	RH2S	51.0	Solar Photovoltaic	SUN	PV
2015	8	59146	Red Horse 2	IPP	Red Horse 2	AZ	58833	RH2W	30.0	Onshore Wind Turbine	WND	WT
2015	8	59589	Rockfish Solar LLC	IPP	Rockfish Solar LLC	MD	59811	GEN1	10.3	Solar Photovoltaic	SUN	PV
2015	8	59611	Royal Solar	IPP	Royal Solar	NC	59831	FLS1	4.9	Solar Photovoltaic	SUN	PV
2015	8	17164	Sierra Pacific Industries Inc	Industrial	SPI Anderson 2	CA	59658	GEN1	27.2	Wood/Wood Waste Biomass	WDS	ST
2015	8	59199	SolNCPower2, LLC	IPP	GKS Solar	NC	59426	GKS1	5.0	Solar Photovoltaic	SUN	PV
2015	8	59340	Stikeleather Farm, LLC	IPP	Stikeleather Farm	NC	59595	PV1	5.0	Solar Photovoltaic	SUN	PV
2015	8	58658	Sunlight Partners	IPP	Melinda Solar	NC	59502	PV1	5.0	Solar Photovoltaic	SUN	PV
2015	8	58658	Sunlight Partners	IPP	Porter Solar	NC	59504	PV1	5.0	Solar Photovoltaic	SUN	PV
2015	8	58661	Sustainable Power Group, LLC	IPP	SEPV Palmdale East	CA	59273	PALME	10.0	Solar Photovoltaic	SUN	PV
2015	8	59609	TWE Kinston Solar	IPP	Kinston Solar	NC	59832	FLS1	5.0	Solar Photovoltaic	SUN	PV
2015	8	59610	TWE Laurinburg Solar	IPP	Laurinburg Solar	NC	59833	FLS1	5.0	Solar Photovoltaic	SUN	PV
2015	8	59349	Walters Solar (FLS 260)	IPP	Walters Solar (FLS 260)	NC	59603	FLS1	5.0	Solar Photovoltaic	SUN	PV
2015	8	58716	Windsor Cooper Hill Solar, LLC	IPP	Windsor Cooper Hill Solar, LLC	NC	58847	1	5.0	Solar Photovoltaic	SUN	PV
2015	9	59211	Adelanto Solar, LLC	IPP	Adelanto Solar, LLC	CA	59441	SAS	20.0	Solar Photovoltaic	SUN	PV
2015	9	803	Arizona Public Service Co	Electric Utility	SR8S	AZ	59444	PV1	10.0	Solar Photovoltaic	SUN	PV
2015	9	59613	BayWa r.e. Solar Projects LLC	IPP	ESA Selma	NC	59956	GEN02	1.8	Solar Photovoltaic	SUN	PV
2015	9	59613	BayWa r.e. Solar Projects LLC	IPP	Morgan Lancaster 1	CA	59942	ML1	1.5	Solar Photovoltaic	SUN	PV
2015	9	59613	BayWa r.e. Solar Projects LLC	IPP	Newton Grove	NC	59835	GEN1	1.9	Solar Photovoltaic	SUN	PV
2015	9	1883	Blue Earth Light & Water	Electric Utility	Blue Earth	MN	1967	IC7	1.1	Petroleum Liquids	DFO	IC
2015	9	1883	Blue Earth Light & Water	Electric Utility	Blue Earth	MN	1967	IC8	1.8	Petroleum Liquids	DFO	IC
2015	9	5089	Des Moines Metro WRF	Commercial	Des Moines Wastewater Reclamation Fac	IA	50932	72-04	1.4	Other Waste Biomass	OBG	IC
2015	9	5089	Des Moines Metro WRF	Commercial	Des Moines Wastewater Reclamation Fac	IA	50932	72-05	1.4	Other Waste Biomass	OBG	IC
2015	9	57170	EDF Renewable Asset Holdings, Inc.	IPP	Spinning Spur Wind III	TX	58775	GEN1	194.0	Onshore Wind Turbine	WND	WT
2015	9	57389	IKEA Property Inc	Commercial	IKEA St. Louis 410	MO	59714	IK410	1.0	Solar Photovoltaic	SUN	PV
2015	9	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Crawfordsville Solar Park	IN	59483	SCRAW	3.0	Solar Photovoltaic	SUN	PV
2015	9	59717	Joliet Battery Storage LLC	IPP	Jake Energy Storage Center	IL	59960	JBS	19.8	Batteries	MWH	BA
2015	9	59648	Lockheed Martin Solar System	IPP	Lockheed Martin Solar System	FL	59867	LMSOL	1.9	Solar Photovoltaic	SUN	PV
2015	9	58451	McCoy Solar, LLC	IPP	McCoy Solar Energy Project	CA	58462	BLK4	31.4	Solar Photovoltaic	SUN	PV
2015	9	12341	MidAmerican Energy Co	Electric Utility	Highland Wind Project (IA)	IA	58883	HLWF4	88.8	Onshore Wind Turbine	WND	WT
2015	9	56990	NJR Clean Energy Ventures Corporation	IPP	Hanover	NJ	59628	HNOVR	5.0	Solar Photovoltaic	SUN	PV
2015	9	57457	Newark Energy Center, LLC	IPP	Newark Energy Center	NJ	58079	GT-1	200.0	Natural Gas Fired Combined Cycle	NG	CT
2015	9	57457	Newark Energy Center, LLC	IPP	Newark Energy Center	NJ	58079	GT-2	200.0	Natural Gas Fired Combined Cycle	NG	CT
2015	9	57457	Newark Energy Center, LLC	IPP	Newark Energy Center	NJ	58079	STG-1	285.0	Natural Gas Fired Combined Cycle	NG	CA
2015	9	58565	Saddleback Ridge Wind, LLC	IPP	Saddleback Ridge Wind Farm	ME	58608	SRW1	34.2	Onshore Wind Turbine	WND	WT
2015	9	59560	SunE Solar XVII Project 1, LLC	IPP	Fiddler's Canyon #1	UT	59787	FID1	3.0	Solar Photovoltaic	SUN	PV
2015	9	59561	SunE Solar XVII Project 2, LLC	IPP	Fiddler's Canyon #2	UT	59786	FID2	3.0	Solar Photovoltaic	SUN	PV
2015	9	58917	West Salisbury Farm LLC	IPP	West Salisbury Farm LLC	NC	59111	1	5.0	Solar Photovoltaic	SUN	PV
2015	10	58703	Apple One LLC	IPP	Apple One	NC	58828	PV1	5.0	Solar Photovoltaic	SUN	PV
2015	10	59613	BayWa r.e. Solar Projects LLC	IPP	ESA Smithfield	NC	59955	GEN01	1.8	Solar Photovoltaic	SUN	PV
2015	10	1991	Boise White Paper LLC	Industrial	Boise Cascade International Falls	MN	10486	GEN 6	40.0	Wood/Wood Waste Biomass	BLQ	ST
2015	10	57166	CPV Shore LLC	IPP	Woodbridge Energy Center	NJ	57839	CT002	240.0	Natural Gas Fired Combined Cycle	NG	CT
2015	10	59503	Capital Dynamics	IPP	Briscoe Wind Farm	TX	59734	BFW	150.0	Onshore Wind Turbine	WND	WT
2015	10	59503	Capital Dynamics	IPP	Green Pastures Wind II	TX	59733	GPII	150.0	Onshore Wind Turbine	WND	WT
2015	10	59736	Columbia Solar Energy LLC	IPP	Columbia Solar Energy, LLC	CA	59979	GEN1	19.2	Solar Photovoltaic	SUN	PV
2015	10	58970	Ecoplexus, Inc	IPP	Shawboro PV1	NC	59155	SHAW1	20.0	Solar Photovoltaic	SUN	PV
2015	10	59533	Facile Solar LLC	IPP	Facile Solar	NC	59406	SYS1	2.0	Solar Photovoltaic	SUN	PV
2015	10	59155	First Wind O&M, LLC	IPP	Greenville Solar Plant	UT	58603	GVSP1	2.2	Solar Photovoltaic	SUN	PV
2015	10	59155	First Wind O&M, LLC	IPP	Oakfield Wind Project	ME	57002	1	148.0	Onshore Wind Turbine	WND	WT
2015	10	59729	Golden West Power Partners, LLC	IPP	Golden West Power Partners LLC	CO	59974	GW1	250.0	Onshore Wind Turbine	WND	WT
2015	10	9234	Indiana Municipal Power Agency	Electric Utility	IMPA Pendleton Solar Park	IN	59770	SPEND	2.0	Solar Photovoltaic	SUN	PV
2015	10	10810	LAX Airport	Commercial	Central Utilities Plant LAX 2	CA	58258	GEN1	4.4	Natural Gas Fired Combustion Turbine	NG	GT
2015	10	10810	LAX Airport	Commercial	Central Utilities Plant LAX 2	CA	58258	GEN2	4.4	Natural Gas Fired Combustion Turbine	NG	GT
2015	10	58985	Marion Solar LLC	IPP	Marion Solar LNG	IN	59180	PV1	1.5	Solar Photovoltaic	SUN	PV
2015	10	12341	MidAmerican Energy Co	Electric Utility	Adams Wind	IA	59637	ADWF	4.7	Onshore Wind Turbine	WND	WT
2015	10	12341	MidAmerican Energy Co	Electric Utility	Highland Wind Project (IA)	IA	58883	HLWF5	88.8	Onshore Wind Turbine	WND	WT
2015	10	59188	Pleasant Hill Wind Energy LLC	IPP	Pleasant Hill Wind Energy Project	TX	59417	WT1	20.0	Onshore Wind Turbine	WND	WT
2015	10	58652	Roundtop Energy LLC	IPP	Roundtop	PA	58715	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC
2015	10	58652	Roundtop Energy LLC	IPP	Roundtop	PA	58715	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC
2015	10	58652	Roundtop Energy LLC	IPP	Roundtop	PA	58715	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC
2015	10	58652	Roundtop Energy LLC	IPP	Roundtop	PA	58715	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC
2015	10	58652	Roundtop Energy LLC	IPP	Roundtop	PA	58715	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC
2015	10	59637	SolNCPower6, LLC	IPP	SolNCPower6, LLC	NC	59856	SUN1	5.0	Solar Photovoltaic	SUN	PV
2015	10	58658	Sunlight Partners	IPP	Elliana Solar	NC	58725	PV1	5.0	Solar Photovoltaic	SUN	PV
2015	10	18260	Surprise Valley Electrification	Electric Utility	Paisley Geothermal Generating Plant	OR	59382	SVEP1	1.8	Geothermal	GEO	ST
2015	10	58661	Sustainable Power Group, LLC	IPP	Redcrest Solar Farm	CA	58831	PV-1	16.6	Solar Photovoltaic	SUN	PV
2015	10	58661	Sustainable Power Group, LLC	IPP	Sterlington Greenworks LLC	NY	59275	STERG	1.3	Solar Photovoltaic	SUN	PV
2015	10	58661	Sustainable Power Group, LLC	IPP	Sutter Greeworks LLC	NY	59274	SUTTG	5.0	Solar Photovoltaic	SUN	PV
2015	10	59718	West Chicago Battery Storage LLC	IPP	Elwood Energy Storage Center	IL	59959	WCBS	19.8	Batteries	MWH	BA
2015	11	59039	Arbuckle Mountain Wind Farm LLC	IPP	Arbuckle Mountain Wind Farm LLC	OK	59234	GEN1	100.0	Onshore Wind Turbine	WND	WT
2015	11	59694	BG Stewart Solar Farm LLC	IPP	BG Stewart Solar Farm, LLC	NC	59930	NB005	4.9	Solar Photovoltaic	SUN	PV
2015	11	57166	CPV Shore LLC	IPP	Woodbridge Energy Center	NJ	57839	CT001	240.0	Natural Gas Fired Combined Cycle	NG	CT
2015	11	57166	CPV Shore LLC	IPP	Woodbridge Energy Center	NJ	57839	ST001	315.0	Natural Gas Fired Combined Cycle	NG	CA
2015	11	59730	Carousel Wind Farm, LLC	IPP	Carousel Wind Farm LLC	CO	59975	CW1	150.0	Onshore Wind Turbine	WND	WT

Table 6.3. New Utility Scale Generating Units by Operating Company, Plant, and Month, 2015

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2015	11	19856	City of Vineland - (NJ)	Electric Utility	Clayville	NJ	58235	1	63.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	11	59464	Current Energy Group	IPP	Aspen Solar, LLC	NC	59694	GEN1	5.0	Solar Photovoltaic	SUN	PV
2015	11	59206	Downs Farm Solar, LLC	IPP	Downs Farm Solar	NC	59429	DOWN1	5.0	Solar Photovoltaic	SUN	PV
2015	11	3542	Duke Energy Ohio Inc	Electric Utility	Walter C Beckjord	OH	2830	BECK2	2.0	Batteries	MWH	BA
2015	11	3046	Duke Energy Progress - (NC)	Electric Utility	DD Fayetteville Solar NC LLC	NC	59117	PV1	23.1	Solar Photovoltaic	SUN	PV
2015	11	58962	Fair Wind Power Partners	IPP	Fair Wind Power	MD	59147	1	30.0	Onshore Wind Turbine	WND	WT
2015	11	59155	First Wind O&M, LLC	IPP	South Plains Wind Phase I	TX	59384	1	200.0	Onshore Wind Turbine	WND	WT
2015	11	59742	GASNA 31P LLC	IPP	Morelos del Sol	CA	60007	MORLS	15.0	Solar Photovoltaic	SUN	PV
2015	11	9267	Hoosier Energy R E C, Inc	Electric Utility	Scotland Solar RES	IN	59982	PV1	1.1	Solar Photovoltaic	SUN	PV
2015	11	59443	Innovative Solar 34, LLC	IPP	Innovative Solar 34	NC	59673	IS034	47.7	Solar Photovoltaic	SUN	PV
2015	11	59437	Innovative Solar 48, LLC	IPP	Innovative Solar 48	NC	59667	IS048	4.9	Solar Photovoltaic	SUN	PV
2015	11	58638	Lenape Solar II, LLC	IPP	Lenape II	IN	58703	1	4.0	Solar Photovoltaic	SUN	PV
2015	11	58985	Marion Solar LLC	IPP	Belmont	IN	59172	PV1	3.8	Solar Photovoltaic	SUN	PV
2015	11	58451	McCoy Solar, LLC	IPP	McCoy Solar Energy Project	CA	58462	BLK5	31.4	Solar Photovoltaic	SUN	PV
2015	11	12341	MidAmerican Energy Co	Electric Utility	Adams Wind	IA	59637	ADWF2	42.2	Onshore Wind Turbine	WND	WT
2015	11	12341	MidAmerican Energy Co	Electric Utility	Highland Wind Project (IA)	IA	58883	HLWF6	75.5	Onshore Wind Turbine	WND	WT
2015	11	13407	Nevada Power Co	Electric Utility	Nellis Solar PV II	NV	59919	NSPV2	15.0	Solar Photovoltaic	SUN	PV
2015	11	14395	Palm Springs City of	Commercial	Municipal Cogen Plant	CA	50674	GEN1A	1.2	Natural Gas Internal Combustion Engine	NG	IC
2015	11	59222	Qualcomm Incorporated	Commercial	P Plant	CA	59456	P-TG5	4.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	11	59888	Rockingham Solar, LLC	IPP	Rockingham Solar, LLC	NC	60106	ROCK	4.9	Solar Photovoltaic	SUN	PV
2015	11	59274	SR Hazlehurst, LLC	IPP	SR Hazlehurst	GA	59535	HAZLE	20.0	Solar Photovoltaic	SUN	PV
2015	11	59363	Silver State Solar Power South, LLC	IPP	Silver State Solar Power South	NV	58644	BLK1	26.4	Solar Photovoltaic	SUN	PV
2015	11	59138	SunPower Corporation, Systems	IPP	Quinto Solar PV Project	CA	59339	SSC13	105.1	Solar Photovoltaic	SUN	PV
2015	11	58658	Sunlight Partners	IPP	Buddy Solar	NC	58735	PV1	4.0	Solar Photovoltaic	SUN	PV
2015	11	58658	Sunlight Partners	IPP	Charlotte Solar	NC	58722	PV1	5.0	Solar Photovoltaic	SUN	PV
2015	11	58658	Sunlight Partners	IPP	Flash Solar	NC	58726	PV1	5.0	Solar Photovoltaic	SUN	PV
2015	11	58658	Sunlight Partners	IPP	Quincy Solar	NC	59506	PV1	4.0	Solar Photovoltaic	SUN	PV
2015	11	58661	Sustainable Power Group, LLC	IPP	Sierra Solar Greenworks	CA	59431	SSG1	20.0	Solar Photovoltaic	SUN	PV
2015	11	59519	TerraForm Solar XVII, LLC	IPP	RGS-Rutland VNM SREC II Project (MA)	MA	59777	1	2.6	Solar Photovoltaic	SUN	PV
2015	11	56641	Tonopah Solar Energy LLC	IPP	Crescent Dunes Solar Energy	NV	57275	TSE-1	110.0	Solar Thermal with Energy Storage	SUN	CP
2015	11	19497	United Illuminating Co	Electric Utility	UI RCP Bridgeport Seaside	CT	60054	BPFC	2.8	Other Natural Gas	NG	FC

NOTES:

Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this report. This exclusion may represent a signifciant portion of capacity for some technologies such as solar photovoltaic generation.

Entity ID and Plant ID are official, unique identification numbers assigned by EIA; Generator IDs are assigned by plant owners and/or operators.

Descriptions for the Energy Source Codes and the Prime Mover Codes listed in the table can be found in the Technical Notes.

Table 6.4. Retired Utility Scale Generating Units by Operating Company, Plant, and Month, 2015

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2015	1	12986	Morton Salt Inc	Industrial	Morton Salt Rittman	OH	54335	GEN1	1.5	Conventional Steam Coal	BIT	ST
2015	1	19876	Virginia Electric & Power Co	Electric Utility	Chesapeake	VA	3803	3	156.0	Conventional Steam Coal	BIT	ST
2015	1	19876	Virginia Electric & Power Co	Electric Utility	Chesapeake	VA	3803	ST1	111.0	Conventional Steam Coal	BIT	ST
2015	1	19876	Virginia Electric & Power Co	Electric Utility	Chesapeake	VA	3803	ST2	111.0	Conventional Steam Coal	BIT	ST
2015	1	19876	Virginia Electric & Power Co	Electric Utility	Chesapeake	VA	3803	ST4	217.0	Conventional Steam Coal	BIT	ST
2015	3	3030	Cardinal Cogen Inc	Electric CHP	Cardinal Cogen	CA	10168	GTG1	42.1	Natural Gas Fired Combined Cycle	NG	CT
2015	3	3030	Cardinal Cogen Inc	Electric CHP	Cardinal Cogen	CA	10168	STG1	9.4	Natural Gas Fired Combined Cycle	NG	CA
2015	3	6204	City of Farmington - (NM)	Electric Utility	Animas	NM	2465	1	3.0	Natural Gas Fired Combined Cycle	NG	CA
2015	3	6204	City of Farmington - (NM)	Electric Utility	Animas	NM	2465	2	3.0	Natural Gas Fired Combined Cycle	NG	CA
2015	3	1179	Emera Maine	Electric Utility	Medway	ME	1474	IC1	2.0	Petroleum Liquids	DFO	IC
2015	3	1179	Emera Maine	Electric Utility	Medway	ME	1474	IC2	2.0	Petroleum Liquids	DFO	IC
2015	3	1179	Emera Maine	Electric Utility	Medway	ME	1474	IC3	2.0	Petroleum Liquids	DFO	IC
2015	3	1179	Emera Maine	Electric Utility	Medway	ME	1474	IC4	2.0	Petroleum Liquids	DFO	IC
2015	3	9267	Hoosier Energy R E C, Inc	Electric Utility	Frank E Ratts	IN	1043	1	110.0	Conventional Steam Coal	BIT	ST
2015	3	9267	Hoosier Energy R E C, Inc	Electric Utility	Frank E Ratts	IN	1043	2	100.0	Conventional Steam Coal	BIT	ST
2015	3	57450	Martin Midstream Partnership,LP	Industrial	Cross Oil Refining & Marketing, Inc	AR	58077	CROSS	3.5	Natural Gas Fired Combustion Turbine	NG	GT
2015	3	12341	MidAmerican Energy Co	Electric Utility	Walter Scott Jr Energy Center	IA	1082	1	37.4	Conventional Steam Coal	SUB	ST
2015	3	12341	MidAmerican Energy Co	Electric Utility	Walter Scott Jr Energy Center	IA	1082	2	80.8	Conventional Steam Coal	SUB	ST
2015	3	58159	Penn State University	Commercial	West Campus Steam Plant	PA	58194	WC 2	0.5	Conventional Steam Coal	BIT	ST
2015	3	58159	Penn State University	Commercial	West Campus Steam Plant	PA	58194	WC 3	0.6	Conventional Steam Coal	BIT	ST
2015	3	15298	Talen Montana LLC	IPP	J E Corette Plant	MT	2187	1	153.0	Conventional Steam Coal	SUB	ST
2015	4	195	Alabama Power Co	Electric Utility	Gorgas	AL	8	6	103.0	Conventional Steam Coal	BIT	ST
2015	4	195	Alabama Power Co	Electric Utility	Gorgas	AL	8	7	104.0	Conventional Steam Coal	BIT	ST
2015	4	57279	California Portland Cement Co	Industrial	Colton Plant	CA	57907	1	14.3	Conventional Steam Coal	BIT	ST
2015	4	57279	California Portland Cement Co	Industrial	Colton Plant	CA	57907	2	14.3	Conventional Steam Coal	BIT	ST
2015	4	3522	Chugach Electric Assn Inc	Electric Utility	Beluga	AK	96	8	44.0	Natural Gas Fired Combined Cycle	NG	CA
2015	4	13971	City of Odessa - (MO)	Electric Utility	Odessa	MO	2148	3	1.8	Petroleum Liquids	DFO	IC
2015	4	13971	City of Odessa - (MO)	Electric Utility	Odessa	MO	2148	6	2.7	Petroleum Liquids	DFO	IC
2015	4	13971	City of Odessa - (MO)	Electric Utility	Odessa	MO	2148	IC4	0.8	Petroleum Liquids	DFO	IC
2015	4	4254	Consumers Energy Co	Electric Utility	J C Weadock	MI	1720	A	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	4	4427	Covanta Projects LP	Commercial	Covanta Wallingford Energy	CT	50664	GEN1	8.4	Municipal Solid Waste	MSW	ST
2015	4	5109	DTE Electric Company	Electric Utility	Trenton Channel	MI	1745	8	100.0	Conventional Steam Coal	SUB	ST
2015	4	5580	East Kentucky Power Coop, Inc	Electric Utility	Dale	KY	1385	1	23.0	Conventional Steam Coal	BIT	ST
2015	4	5580	East Kentucky Power Coop, Inc	Electric Utility	Dale	KY	1385	2	23.0	Conventional Steam Coal	BIT	ST
2015	4	6526	FirstEnergy Generation Corp	IPP	FirstEnergy Ashtabula	OH	2835	5	244.0	Conventional Steam Coal	SUB	ST
2015	4	6526	FirstEnergy Generation Corp	IPP	FirstEnergy Eastlake	OH	2837	1	132.0	Conventional Steam Coal	SUB	ST
2015	4	6526	FirstEnergy Generation Corp	IPP	FirstEnergy Eastlake	OH	2837	2	132.0	Conventional Steam Coal	SUB	ST
2015	4	6526	FirstEnergy Generation Corp	IPP	FirstEnergy Eastlake	OH	2837	3	132.0	Conventional Steam Coal	SUB	ST
2015	4	6526	FirstEnergy Generation Corp	IPP	FirstEnergy Lake Shore	OH	2838	18	245.0	Conventional Steam Coal	SUB	ST
2015	4	6526	FirstEnergy Generation Corp	IPP	FirstEnergy Lake Shore	OH	2838	IC1	2.0	Petroleum Liquids	DFO	IC
2015	4	6526	FirstEnergy Generation Corp	IPP	FirstEnergy Lake Shore	OH	2838	IC2	2.0	Petroleum Liquids	DFO	IC
2015	4	7140	Georgia Power Co	Electric Utility	Harllee Branch	GA	709	1	266.0	Conventional Steam Coal	BIT	ST
2015	4	7140	Georgia Power Co	Electric Utility	Harllee Branch	GA	709	3	509.0	Conventional Steam Coal	BIT	ST
2015	4	7140	Georgia Power Co	Electric Utility	Harllee Branch	GA	709	4	507.0	Conventional Steam Coal	BIT	ST
2015	4	7140	Georgia Power Co	Electric Utility	McManus	GA	715	1	43.0	Petroleum Liquids	RFO	ST
2015	4	7140	Georgia Power Co	Electric Utility	McManus	GA	715	2	79.0	Petroleum Liquids	RFO	ST
2015	4	7140	Georgia Power Co	Electric Utility	Yates	GA	728	1	97.0	Conventional Steam Coal	BIT	ST
2015	4	7140	Georgia Power Co	Electric Utility	Yates	GA	728	2	103.0	Conventional Steam Coal	BIT	ST
2015	4	7140	Georgia Power Co	Electric Utility	Yates	GA	728	3	111.0	Conventional Steam Coal	BIT	ST
2015	4	7140	Georgia Power Co	Electric Utility	Yates	GA	728	4	133.0	Conventional Steam Coal	BIT	ST
2015	4	7140	Georgia Power Co	Electric Utility	Yates	GA	728	5	135.0	Conventional Steam Coal	BIT	ST
2015	4	7801	Gulf Power Co	Electric Utility	Scholz	FL	642	1	46.0	Conventional Steam Coal	BIT	ST
2015	4	7801	Gulf Power Co	Electric Utility	Scholz	FL	642	2	46.0	Conventional Steam Coal	BIT	ST
2015	4	9205	Illinois Electricial Gen Partn	IPP	Brickyard Energy Partners LLC	IL	55762	BR1	0.9	Landfill Gas	LFG	IC
2015	4	9205	Illinois Electricial Gen Partn	IPP	Brickyard Energy Partners LLC	IL	55762	BR2	0.9	Landfill Gas	LFG	IC
2015	4	9205	Illinois Electricial Gen Partn	IPP	Brickyard Energy Partners LLC	IL	55762	BR3	0.9	Landfill Gas	LFG	IC
2015	4	9205	Illinois Electricial Gen Partn	IPP	Brickyard Energy Partners LLC	IL	55762	BR5	0.9	Landfill Gas	LFG	IC
2015	4	9205	Illinois Electricial Gen Partn	IPP	Roxana Resource Recovery	IL	55759	RX1	0.9	Landfill Gas	LFG	IC
2015	4	9205	Illinois Electricial Gen Partn	IPP	Roxana Resource Recovery	IL	55759	RX2	0.9	Landfill Gas	LFG	IC
2015	4	9205	Illinois Electricial Gen Partn	IPP	Roxana Resource Recovery	IL	55759	RX3	0.9	Landfill Gas	LFG	IC
2015	4	9205	Illinois Electricial Gen Partn	IPP	Roxana Resource Recovery	IL	55759	RX4	0.9	Landfill Gas	LFG	IC
2015	4	9205	Illinois Electricial Gen Partn	IPP	Upper Rock Energy Partners LLC	IL	55764	UR1	0.9	Landfill Gas	LFG	IC
2015	4	9205	Illinois Electricial Gen Partn	IPP	Upper Rock Energy Partners LLC	IL	55764	UR2	0.9	Landfill Gas	LFG	IC
2015	4	9205	Illinois Electricial Gen Partn	IPP	Upper Rock Energy Partners LLC	IL	55764	UR3	0.9	Landfill Gas	LFG	IC
2015	4	9205	Illinois Electricial Gen Partn	IPP	Upper Rock Energy Partners LLC	IL	55764	UR4	0.9	Landfill Gas	LFG	IC
2015	4	11249	Louisville Gas & Electric Co	Electric Utility	Cane Run	KY	1363	6	240.0	Conventional Steam Coal	BIT	ST
2015	4	12384	Midwest Generations EME LLC	IPP	Will County	IL	884	3	251.0	Conventional Steam Coal	SUB	ST
2015	4	13781	Northern States Power Co - Minnesota	Electric Utility	Black Dog	MN	1904	3	79.0	Conventional Steam Coal	SUB	ST
2015	4	13781	Northern States Power Co - Minnesota	Electric Utility	Black Dog	MN	1904	4	153.0	Conventional Steam Coal	SUB	ST
2015	4	13781	Northern States Power Co - Minnesota	Electric Utility	Key City	MN	1914	1	8.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	4	13781	Northern States Power Co - Minnesota	Electric Utility	Key City	MN	1914	2	8.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	4	13781	Northern States Power Co - Minnesota	Electric Utility	Key City	MN	1914	3	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	4	13781	Northern States Power Co - Minnesota	Electric Utility	Key City	MN	1914	4	13.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	4	14354	PacifiCorp	Electric Utility	Carbon	UT	3644	1	67.0	Conventional Steam Coal	BIT	ST
2015	4	14354	PacifiCorp	Electric Utility	Carbon	UT	3644	2	105.0	Conventional Steam Coal	BIT	ST
2015	4	16657	San Jose/Santa Clara Water P C	Commercial	SJ/SC WPCP	CA	56080	E3	0.8	Other Waste Biomass	OBG	IC
2015	4	1951	White Pine Electric Power LLC	IPP	White Pine Electric Power	MI	10148	GEN2	18.0	Natural Gas Steam Turbine	NG	ST
2015	4	21148	Zapco Energy Tactics Corp	IPP	Oceanside Energy	NY	50348	OS3	0.6	Landfill Gas	LFG	IC
2015	5	58620	AEP Generation Resources Inc	IPP	Kammer	WV	3947	1	200.0	Conventional Steam Coal	BIT	ST
2015	5	58620	AEP Generation Resources Inc	IPP	Kammer	WV	3947	2	200.0	Conventional Steam Coal	BIT	ST
2015	5	58620	AEP Generation Resources Inc	IPP	Kammer	WV	3947	3	200.0	Conventional Steam Coal	BIT	ST
2015	5	58620	AEP Generation Resources Inc	IPP	Muskingum River	OH	2872	1	190.0	Conventional Steam Coal	BIT	ST
2015	5	58620	AEP Generation Resources Inc	IPP	Muskingum River	OH	2872	2	190.0	Conventional Steam Coal	BIT	ST
2015	5	58620	AEP Generation Resources Inc	IPP	Muskingum River	OH	2872	3	205.0	Conventional Steam Coal	BIT	ST
2015	5	58620	AEP Generation Resources Inc	IPP	Muskingum River	OH	2872	4	205.0	Conventional Steam Coal	BIT	ST
2015	5	58620	AEP Generation Resources Inc	IPP	Muskingum River	OH	2872	5	585.0	Conventional Steam Coal	BIT	ST
2015	5	58620	AEP Generation Resources Inc	IPP	Picway	OH	2843	5	95.0	Conventional Steam Coal	BIT	ST
2015	5	142	AES Beaver Valley	Electric CHP	AES Beaver Valley Partners Beaver Valley	PA	10676	GEN2	32.0	Conventional Steam Coal	BIT	ST
2015	5	142	AES Beaver Valley	Electric CHP	AES Beaver Valley Partners Beaver Valley	PA	10676	GEN3	114.0	Conventional Steam Coal	BIT	ST
2015	5	12647	ALLETE, Inc.	Electric Utility	Taconite Harbor Energy Center	MN	10075	GEN3	83.6	Conventional Steam Coal	SUB	ST
2015	5	56606	Calpine New Jersey Generation LLC	IPP	Cedar Station	NJ	2380	CED1	42.7	Petroleum Liquids	KER	GT
2015	5	56606	Calpine New Jersey Generation LLC	IPP	Cedar Station	NJ	2380	CED2	22.7	Petroleum Liquids	KER	GT
2015	5	56606	Calpine New Jersey Generation LLC	IPP	Middle Station	NJ	2382	MID1	19.2	Petroleum Liquids	KER	GT
2015	5	56606	Calpine New Jersey Generation LLC	IPP	Middle Station	NJ	2382	MID2	19.4	Petroleum Liquids	KER	GT
2015	5	56606	Calpine New Jersey Generation LLC	IPP	Middle Station	NJ	2382	MID3	34.8	Petroleum Liquids	KER	GT
2015	5	56606	Calpine New Jersey Generation LLC	IPP	Missouri Avenue	NJ	2383	MISB	18.5	Petroleum Liquids	KER	GT
2015	5	56606	Calpine New Jersey Generation LLC	IPP	Missouri Avenue	NJ	2383	MISC	20.5	Petroleum Liquids	KER	GT
2015	5	56606	Calpine New Jersey Generation LLC	IPP	Missouri Avenue	NJ	2383	MISD	20.5	Petroleum Liquids	KER	GT
2015	5	19804	City of Vero Beach - (FL)	Electric Utility	Vero Beach Municipal Power Plant	FL	693	4	56.0	Natural Gas Steam Turbine	NG	ST
2015	5	4254	Consumers Energy Co	Electric Utility	B C Cobb	MI	1695	1	54.0	Natural Gas Steam Turbine	NG	ST
2015	5	4254	Consumers Energy Co	Electric Utility	B C Cobb	MI	1695	2	65.0	Natural Gas Steam Turbine	NG	ST
2015	5	4254	Consumers Energy Co	Electric Utility	B C Cobb	MI	1695	3	68.0	Natural Gas Steam Turbine	NG	ST
2015	5	4254	Consumers Energy Co	Electric Utility	J R Whiting	MI	1723	A	13.0	Petroleum Liquids	DFO	GT
2015	5	9413	Iowa Methodist Medical Center	Commercial	Iowa Methodist Medical Center	IA	10655	1	1.5	Petroleum Liquids	DFO	IC
2015	5	9413	Iowa Methodist Medical Center	Commercial	Iowa Methodist Medical Center	IA	10655	2	1.5	Petroleum Liquids	DFO	IC
2015	5	9413	Iowa Methodist Medical Center	Commercial	Iowa Methodist Medical Center	IA	10655	3	0.5	Petroleum Liquids	DFO	IC
2015	5	9788	John Deere Harvester Works Co	Industrial	John Deere Harvester Works	IL	10039	GEN7	0.8	Conventional Steam Coal	BIT	ST
2015	5	22053	Kentucky Power Co	Electric Utility	Big Sandy	KY	1353	2	800.0	Conventional Steam Coal	BIT	ST
2015	5	15147	PSEG Fossil LLC	IPP	PSEG Essex Generating Station	NJ	2401	121	46.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	5	15147	PSEG Fossil LLC	IPP	PSEG Essex Generating Station	NJ	2401	122	46.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	5	15147	PSEG Fossil LLC	IPP	PSEG Essex Generating Station	NJ	2401	123	46.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	5	15147	PSEG Fossil LLC	IPP	PSEG Essex Generating Station	NJ	2401	124	46.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	5	58544	Sierra Nevada Brewing Co	Industrial	Sierra Nevada Brewing Co	CA	58585	FCE	1.0	Other Natural Gas	NG	FC
2015	6	2647	City of Butler - (MO)	Electric Utility	Butler	MO	2115	3	0.6	Petroleum Liquids	DFO	IC
2015	6	4922	Dayton Power & Light Co	Electric Utility	O H Hutchings	OH	2848	1	58.0	Conventional Steam Coal	BIT	ST
2015	6	4922	Dayton Power & Light Co	Electric Utility	O H Hutchings	OH	2848	2	55.0	Conventional Steam Coal	BIT	ST
2015	6	4922	Dayton Power & Light Co	Electric Utility	O H Hutchings	OH	2848	3	63.0	Conventional Steam Coal	BIT	ST
2015	6	4922	Dayton Power & Light Co	Electric Utility	O H Hutchings	OH	2848	5	63.0	Conventional Steam Coal	BIT	ST
2015	6	4922	Dayton Power & Light Co	Electric Utility	O H Hutchings	OH	2848	6	63.0	Conventional Steam Coal	BIT	ST
2015	6	5860	Empire District Electric Co	Electric Utility	Riverton	KS	1239	8	54.0	Conventional Steam Coal	SUB	ST
2015	6	5860	Empire District Electric Co	Electric Utility	Riverton	KS	1239	9	12.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	6	9324	Indiana Michigan Power Co	Electric Utility	Tanners Creek	IN	988	1	145.0	Conventional Steam Coal	BIT	ST
2015	6	9324	Indiana Michigan Power Co	Electric Utility	Tanners Creek	IN	988	2	145.0	Conventional Steam Coal	BIT	ST

Table 6.4. Retired Utility Scale Generating Units by Operating Company, Plant, and Month, 2015

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2015	6	9324	Indiana Michigan Power Co	Electric Utility	Tanners Creek	IN	988	3	200.0	Conventional Steam Coal	BIT	ST
2015	6	9324	Indiana Michigan Power Co	Electric Utility	Tanners Creek	IN	988	4	500.0	Conventional Steam Coal	BIT	ST
2015	6	11249	Louisville Gas & Electric Co	Electric Utility	Cane Run	KY	1363	4	155.0	Conventional Steam Coal	BIT	ST
2015	6	11249	Louisville Gas & Electric Co	Electric Utility	Cane Run	KY	1363	5	168.0	Conventional Steam Coal	BIT	ST
2015	6	15147	PSEG Fossil LLC	IPP	Bergen Generating Station	NJ	2398	3	21.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	6	15147	PSEG Fossil LLC	IPP	PSEG Burlington Generating Station	NJ	2399	111	46.0	Petroleum Liquids	DFO	GT
2015	6	15147	PSEG Fossil LLC	IPP	PSEG Burlington Generating Station	NJ	2399	112	46.0	Petroleum Liquids	DFO	GT
2015	6	15147	PSEG Fossil LLC	IPP	PSEG Burlington Generating Station	NJ	2399	113	46.0	Petroleum Liquids	DFO	GT
2015	6	15147	PSEG Fossil LLC	IPP	PSEG Burlington Generating Station	NJ	2399	114	46.0	Petroleum Liquids	DFO	GT
2015	6	15147	PSEG Fossil LLC	IPP	PSEG Burlington Generating Station	NJ	2399	8	22.0	Petroleum Liquids	DFO	GT
2015	6	15147	PSEG Fossil LLC	IPP	PSEG Edison Generating Station	NJ	2400	11	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	6	15147	PSEG Fossil LLC	IPP	PSEG Edison Generating Station	NJ	2400	12	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	6	15147	PSEG Fossil LLC	IPP	PSEG Edison Generating Station	NJ	2400	13	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	6	15147	PSEG Fossil LLC	IPP	PSEG Edison Generating Station	NJ	2400	14	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	6	15147	PSEG Fossil LLC	IPP	PSEG Edison Generating Station	NJ	2400	21	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	6	15147	PSEG Fossil LLC	IPP	PSEG Edison Generating Station	NJ	2400	22	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	6	15147	PSEG Fossil LLC	IPP	PSEG Edison Generating Station	NJ	2400	23	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	6	15147	PSEG Fossil LLC	IPP	PSEG Edison Generating Station	NJ	2400	24	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	6	15147	PSEG Fossil LLC	IPP	PSEG Edison Generating Station	NJ	2400	31	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	6	15147	PSEG Fossil LLC	IPP	PSEG Edison Generating Station	NJ	2400	32	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	6	15147	PSEG Fossil LLC	IPP	PSEG Edison Generating Station	NJ	2400	33	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	6	15147	PSEG Fossil LLC	IPP	PSEG Edison Generating Station	NJ	2400	34	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	6	15147	PSEG Fossil LLC	IPP	PSEG Essex Generating Station	NJ	2401	101	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	6	15147	PSEG Fossil LLC	IPP	PSEG Essex Generating Station	NJ	2401	102	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	6	15147	PSEG Fossil LLC	IPP	PSEG Essex Generating Station	NJ	2401	103	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	6	15147	PSEG Fossil LLC	IPP	PSEG Essex Generating Station	NJ	2401	104	43.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	6	15147	PSEG Fossil LLC	IPP	PSEG Essex Generating Station	NJ	2401	111	46.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	6	15147	PSEG Fossil LLC	IPP	PSEG Essex Generating Station	NJ	2401	112	46.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	6	15147	PSEG Fossil LLC	IPP	PSEG Essex Generating Station	NJ	2401	113	46.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	6	15147	PSEG Fossil LLC	IPP	PSEG Essex Generating Station	NJ	2401	114	46.0	Natural Gas Fired Combustion Turbine	NG	GT
2015	6	15147	PSEG Fossil LLC	IPP	PSEG Mercer Generating Station	NJ	2408	3	115.0	Petroleum Liquids	DFO	GT
2015	6	15147	PSEG Fossil LLC	IPP	PSEG National Park Generating Station	NJ	2409	1	21.0	Petroleum Liquids	KER	GT
2015	6	15147	PSEG Fossil LLC	IPP	PSEG Sewaren Generating Station	NJ	2411	6	105.0	Petroleum Liquids	KER	GT
2015	6	57427	RockTenn-Battle Creek Mill	Industrial	Battle Creek Mill	MI	58052	2TG	0.8	Natural Gas Steam Turbine	NG	ST
2015	6	18125	Stillwater Utilities Authority	Electric Utility	Boomer Lake Station	OK	3000	1	11.5	Natural Gas Steam Turbine	NG	ST
2015	6	20860	Wisconsin Public Service Corp	Electric Utility	Pulliam	WI	4072	5	47.7	Conventional Steam Coal	SUB	ST
2015	6	20860	Wisconsin Public Service Corp	Electric Utility	Pulliam	WI	4072	6	69.8	Conventional Steam Coal	SUB	ST
2015	6	20860	Wisconsin Public Service Corp	Electric Utility	Weston	WI	4078	1	50.7	Conventional Steam Coal	SUB	ST
2015	7	6455	Duke Energy Florida, Inc	Electric Utility	G E Turner	FL	629	P3	53.0	Petroleum Liquids	DFO	GT
2015	7	12686	Mississippi Power Co	Electric Utility	Jack Watson	MS	2049	1	76.0	Natural Gas Steam Turbine	NG	ST
2015	7	12686	Mississippi Power Co	Electric Utility	Jack Watson	MS	2049	2	76.0	Natural Gas Steam Turbine	NG	ST
2015	8	221	Alaska Village Elec Coop, Inc	Electric Utility	Noatak	AK	57051	UNIT5	0.4	Petroleum Liquids	JF	IC
2015	8	221	Alaska Village Elec Coop, Inc	Electric Utility	St. Michael	AK	57061	UNIT1	0.5	Petroleum Liquids	JF	IC
2015	8	221	Alaska Village Elec Coop, Inc	Electric Utility	St. Michael	AK	57061	UNIT2	0.3	Petroleum Liquids	JF	IC
2015	8	221	Alaska Village Elec Coop, Inc	Electric Utility	St. Michael	AK	57061	UNIT3	0.2	Petroleum Liquids	JF	IC
2015	8	9417	Interstate Power and Light Co	Electric Utility	Hills	MN	1889	1	2.0	Petroleum Liquids	DFO	IC
2015	8	9417	Interstate Power and Light Co	Electric Utility	Hills	MN	1889	2	2.0	Petroleum Liquids	DFO	IC
2015	8	13781	Northern States Power Co - Minnesota	Electric Utility	Alliant Techsystems	MN	7376	1	1.6	Petroleum Liquids	DFO	IC
2015	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	6	103.8	Conventional Hydroelectric	WAT	HY
2015	8	15466	Public Service Co of Colorado	Electric Utility	Cherokee	CO	469	3	152.0	Conventional Steam Coal	BIT	ST
2015	8	56774	S Montana Elec Gen and Trans Coop Inc	Electric Utility	Highwood Generating Station	MT	57480	GTG1	40.5	Natural Gas Fired Combustion Turbine	NG	GT
2015	9	59667	NAVFAC Midlant PWD Great Lakes	Electric CHP	Great Lakes Central Power Plant	IL	59884	GTG-1	4.5	Natural Gas Fired Combustion Turbine	NG	GT
2015	9	59667	NAVFAC Midlant PWD Great Lakes	Electric CHP	Great Lakes Central Power Plant	IL	59884	GTG-2	4.5	Natural Gas Fired Combustion Turbine	NG	GT
2015	9	59667	NAVFAC Midlant PWD Great Lakes	IPP	Great Lakes Central Power Plant	IL	59884	STG-1	0.5	All Other	OTH	ST
2015	9	59667	NAVFAC Midlant PWD Great Lakes	IPP	Great Lakes Central Power Plant	IL	59884	STG-2	0.5	All Other	OTH	ST
2015	9	18642	Tennessee Valley Authority	Electric Utility	Widows Creek	AL	50	8	465.0	Conventional Steam Coal	BIT	ST
2015	10	803	Arizona Public Service Co	Electric Utility	Cholla	AZ	113	2	260.0	Conventional Steam Coal	SUB	ST
2015	10	1991	Boise White Paper LLC	Industrial	Boise Cascade International Falls	MN	10486	GEN1	4.0	Wood/Wood Waste Biomass	BLQ	ST
2015	10	1991	Boise White Paper LLC	Industrial	Boise Cascade International Falls	MN	10486	GEN2	4.0	Wood/Wood Waste Biomass	BLQ	ST
2015	10	1991	Boise White Paper LLC	Industrial	Boise Cascade International Falls	MN	10486	GEN3	7.5	Wood/Wood Waste Biomass	BLQ	ST
2015	10	1991	Boise White Paper LLC	Industrial	Boise Cascade International Falls	MN	10486	GEN4	7.5	Wood/Wood Waste Biomass	BLQ	ST
2015	10	7140	Georgia Power Co	Electric Utility	Kraft	GA	733	2	52.0	Conventional Steam Coal	BIT	ST
2015	10	7140	Georgia Power Co	Electric Utility	Kraft	GA	733	3	101.0	Conventional Steam Coal	BIT	ST
2015	10	7140	Georgia Power Co	Electric Utility	Kraft	GA	733	4	115.0	Natural Gas Steam Turbine	NG	ST
2015	10	7140	Georgia Power Co	Electric Utility	Kraft	GA	733	ST1	48.0	Conventional Steam Coal	BIT	ST
2015	10	9788	John Deere Harvester Works Co	Industrial	John Deere Harvester Works	IL	10039	GEN6	2.5	Conventional Steam Coal	BIT	ST
2015	10	10171	Kentucky Utilities Co	Electric Utility	Green River	KY	1357	3	68.0	Conventional Steam Coal	BIT	ST
2015	10	10171	Kentucky Utilities Co	Electric Utility	Green River	KY	1357	4	93.0	Conventional Steam Coal	BIT	ST
2015	11	733	Appalachian Power Co	Electric Utility	Glen Lyn	VA	3776	5	90.0	Conventional Steam Coal	BIT	ST
2015	11	733	Appalachian Power Co	Electric Utility	Glen Lyn	VA	3776	6	235.0	Conventional Steam Coal	BIT	ST
2015	11	733	Appalachian Power Co	Electric Utility	Philip Sporn	WV	3938	1	145.0	Conventional Steam Coal	BIT	ST
2015	11	733	Appalachian Power Co	Electric Utility	Philip Sporn	WV	3938	2	145.0	Conventional Steam Coal	BIT	ST
2015	11	733	Appalachian Power Co	Electric Utility	Philip Sporn	WV	3938	3	145.0	Conventional Steam Coal	BIT	ST
2015	11	733	Appalachian Power Co	Electric Utility	Philip Sporn	WV	3938	4	145.0	Conventional Steam Coal	BIT	ST
2015	11	12897	Moose Lake Water & Light Comm	Electric Utility	Moose Lake	MN	1996	2	1.1	Petroleum Liquids	DFO	IC

NOTES:

Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this report. This exclusion may represent a signifciant portion of capacity for some technologies such as solar photovoltaic generation.

Entity ID and Plant ID are official, unique identification numbers assigned by EIA; Generator IDs are assigned by plant owners and/or operators.

Descriptions for the Energy Source Codes and the Prime Mover Codes listed in the table can be found in the Technical Notes.

Table 6.5. Planned U.S. Electric Generating Unit Additions

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2015	12	59712	AES Tait LLC	IPP	AES Warrior Run Energy Storage Project	MD	59949	BESS1	11.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	11.0
2015	12	221	Alaska Village Elec Coop, Inc	Electric Utility	Mountain Village	AK	6329	4A	0.8	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	0.8
2015	12	40577	American Mun Power-Ohio, Inc	Electric Utility	Willow Island Hydroelectric Plant	WV	57401	WIG1	22.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	22.0
2015	12	57369	Apple, Inc	Commercial	Apple Data Center PV3	NC	59474	DCPV3	17.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	17.5
2015	12	59789	Avalon Solar Partners II, LLC	IPP	Avalon Solar II	AZ	60062	ASII	16.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	16.0
2015	12	58680	Ayrshire Holdings, LLC	IPP	Ayrshire	NC	58792	PV1	19.4	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	19.4
2015	12	59476	BRE NC Solar, LLC	IPP	BRE	NC	59706	NB005	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2015	12	59805	BWC Swan Pond River, LLC	IPP	BWC Swan Pond River	MA	60067	SPRMA	1.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.6
2015	12	59247	Bearford Solar II LLC	IPP	Bearford Solar II	NC	59488	BEARF	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.9
2015	12	58981	Bethel Solar LLC	IPP	Bethel Solar	NC	59173	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2015	12	58562	Blueberry One, LLC	IPP	Blueberry One	NC	58605	PV1	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2015	12	58939	Cameron Wind 1 LLC	IPP	Cameron Wind 1 LLC	TX	59118	CAM1	165.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	165.0
2015	12	59365	Capital Power Corporation	IPP	Beaufort Solar, LLC	NC	59887	GEN	15.0	Solar Thermal with Energy Storage	SUN	CP	(V) Under construction, more than 50 percent complete	15.0
2015	12	59817	Cedar Bluff Wind, LLC	IPP	Cedar Bluff Wind, LLC	KS	60069	CBLF1	198.6	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	198.6
2015	12	59693	Cline Solar Farm LLC	IPP	Cline Solar Farm, LLC	NC	59929	NB007	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2015	12	59692	Coats Solar Farm LLC	IPP	Coats Solar Farm, LLC	NC	59937	NB006	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2015	12	59261	Colonial Eagle Solar, LLC	IPP	Kelford	NC	59527	KELF1	20.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	20.0
2015	12	59261	Colonial Eagle Solar, LLC	IPP	Whitakers	NC	59526	WHIT1	12.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	12.0
2015	12	59707	Conetoe II Solar, LLC	IPP	Conetoe II Solar, LLC	NC	59944	CONE1	80.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	80.0
2015	12	56769	Consolidated Edison Development Inc.	IPP	Campbell County Wind Farm	SD	59655	CCWF1	97.8	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	97.8
2015	12	57365	Consolidated Edison Solutions Inc	IPP	Future Generation Wind	MA	59622	FGMA	7.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	8.0
2015	12	58695	Coronal Development Services	IPP	Cornwall Solar Center, LLC	NC	59663	CSC1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2015	12	58695	Coronal Development Services	IPP	Crestwood Solar Center LLC	NC	59914	CREST	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2015	12	58695	Coronal Development Services	IPP	Freemont Solar Center LLC	NC	59912	FREE	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2015	12	58695	Coronal Development Services	IPP	Harrell's Hill Solar Center LLC	NC	59337	HHS1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2015	12	58695	Coronal Development Services	IPP	Highland Solar Center LLC	NC	59163	HSC 1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2015	12	58695	Coronal Development Services	IPP	Holdrege Solar Center	NE	59713	HDSC	4.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.0
2015	12	58695	Coronal Development Services	IPP	Lake Solar Center LLC	NC	59161	LSC 1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2015	12	58695	Coronal Development Services	IPP	Littlefield Solar Center LLC	NC	58809	LSC1	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2015	12	58695	Coronal Development Services	IPP	Mariposa Solar Center LLC	NC	59162	MSC 1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2015	12	58695	Coronal Development Services	IPP	Mason Solar Center LLC	NC	59165	MSC 1	15.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	15.3
2015	12	59464	Current Energy Group	IPP	Balsam	NC	59828	5375	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2015	12	59464	Current Energy Group	IPP	Sweetgum Solar	NC	59824	5732	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2015	12	5109	DTE Electric Company	Electric Utility	Greenwood Solar Farm	MI	60019	1	1.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.9
2015	12	58468	Dominion Renewable Energy	IPP	Pavant Solar, LLC	UT	59702	1	50.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	50.0
2015	12	58468	Dominion Renewable Energy	IPP	Richland Solar Center	GA	59874	PV1	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2015	12	3046	Duke Energy Progress - (NC)	Electric Utility	Camp Lejeune Solar	NC	59966	PV1	12.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	12.8
2015	12	3046	Duke Energy Progress - (NC)	Electric Utility	Warsaw Farm	NC	58848	1	65.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	65.0
2015	12	57170	EDF Renewable Asset Holdings, Inc.	IPP	Roosevelt County	NM	58771	GEN1	250.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	250.0
2015	12	57170	EDF Renewable Asset Holdings, Inc.	IPP	Slate Creek Wind Project LLC	KS	59837	GEN1	150.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	150.0
2015	12	58970	Ecoplexus, Inc	IPP	Bradley PV1	NC	59154	BRAD1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2015	12	58970	Ecoplexus, Inc	IPP	Little River PV 1	NC	59521	LTLRV	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2015	12	58970	Ecoplexus, Inc	IPP	Old Catawba PV 1	NC	59519	OLDC	3.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.5
2015	12	58970	Ecoplexus, Inc	IPP	Ouchchy PV1	NC	59999	OUCH1	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2015	12	58970	Ecoplexus, Inc	IPP	Thornton PV1	NC	59152	THOR1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2015	12	58970	Ecoplexus, Inc	IPP	Watson Seed Farm PV1	NC	59153	WAT1	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2015	12	57414	Eli Lilly and Company	Industrial	Lilly Technical Center	IN	58043	5	1.0	All Other	PUR	ST	(OT) Other	1.0
2015	12	59380	Enel Green Power NA, Inc.	IPP	Goodwell Wind Project LLC	OK	58998	GWWP	200.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	200.0
2015	12	59380	Enel Green Power NA, Inc.	IPP	Little Elk Wind Project LLC	OK	58999	LEWP	74.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	74.0
2015	12	59380	Enel Green Power NA, Inc.	IPP	Odell Wind Farm	MN	58657	1	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
2015	12	59804	Federal Road Solar 1, LLC	IPP	Federal Road Solar 1, LLC	MA	60065	FEDRD	4.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.4
2015	12	59760	Findlay Wind Farm	Industrial	Findlay Wind Farm	OH	60015	WNDW1	3.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	3.0
2015	12	59155	First Wind O&M, LLC	IPP	Buckhorn Solar Plant	UT	58600	BSP1	3.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.0
2015	12	59155	First Wind O&M, LLC	IPP	Cedar Valley Solar Plant	UT	58599	CVSP1	3.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.0
2015	12	6452	Florida Power & Light Co	Electric Utility	Daytona International Speedway Solar	FL	60005	1	0.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.6
2015	12	59780	Golden Hills Wind, LLC	IPP	Golden Hills Wind	CA	60049	GE	80.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	80.0
2015	12	59835	Green Farm Solar LLC	IPP	Green Farm	NC	59148	GREEN	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2015	12	59894	HCE Johnston I, LLC	IPP	HCE Johnston I, LLC	NC	60121	HCEJI	2.6	Solar Photovoltaic	SUN	PV	(OP) Operating	2.6
2015	12	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP2	2.5	Other Waste Biomass	OBL	IC	(V) Under construction, more than 50 percent complete	2.5
2015	12	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP3	2.5	Other Waste Biomass	OBL	IC	(V) Under construction, more than 50 percent complete	2.5
2015	12	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP4	2.5	Other Waste Biomass	OBL	IC	(V) Under construction, more than 50 percent complete	2.5
2015	12	58576	Holstein Holdings, LLC	IPP	Holstein Plant	NC	58623	PV1	20.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	20.0
2015	12	9267	Hoosier Energy R E C, Inc	Electric Utility	Lanesville Solar RES	IN	59984	PV1	1.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.1
2015	12	9267	Hoosier Energy R E C, Inc	Electric Utility	New Castle Solar RES	IN	59981	PV1	1.1	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.1
2015	12	9324	Indiana Michigan Power Co	Electric Utility	Deer Creek PV	IN	59855	DCPV1	2.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.5
2015	12	59782	Innovative Solar 18, LLC	IPP	Innovative Solar 18, LLC	NC	60051	FLS1	1.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.9
2015	12	59440	Innovative Solar 23, LLC	IPP	Innovative Solar 23	NC	59670	IS023	1.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.9
2015	12	59783	Innovative Solar 26, LLC	IPP	Innovative Solar 26, LLC	NC	60052	FLS1	1.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.9
2015	12	59882	Javelina Wind Energy, LLC	IPP	Javelina Wind Energy, LLC	TX	60104	GEWTG	105.0	Onshore Wind Turbine	WND	WT	(OP) Operating	249.7
2015	12	58891	Jericho Power LLC	IPP	Jericho Power	NH	59070	WT 1	12.1	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	14.3
2015	12	58679	Kirkwall Holdings, LLC	IPP	Kirkwall Holdings	NC	58791	PV1	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2015	12	59245	Lanier Solar	IPP	Lanier Solar	NC	59486	LANIE	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.9
2015	12	11208	Los Angeles Department of Water & Power	IPP	Colon PV	CA	59798	W4172	1.3	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.3
2015	12	59792	Los Vientos Windpower V, LLC	IPP	Los Vientos V Wind Power	TX	60059	1	110.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	110.0
2015	12	59341	Maricopa West Solar PV, LLC	IPP	Maricopa West Solar	CA	59607	MW5	20.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	20.0
2015	12	58451	McCoy Solar, LLC	IPP	McCoy Solar Energy Project	CA	58462	BLK6	26.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	26.9
2015	12	59691	Meadowbrook Solar Farm LLC	IPP	Meadowbrook Solar Farm	NC	59936	NB008	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2015	12	12341	MidAmerican Energy Co	Electric Utility	Adams Wind	IA	59637	ADWF3	46.9	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	48.2
2015	12	12341	MidAmerican Energy Co	Electric Utility	Highland Wind Project (IA)	IA	58883	HLWF7	11.1	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	11.7
2015	12	12199	Montana-Dakota Utilities Co	Electric Utility	Lewis & Clark	MT	6089	2	9.1	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2015	12	12199	Montana-Dakota Utilities Co	Electric Utility	Lewis & Clark	MT	6089	3	9.1	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2015	12	56990	NJR Clean Energy Ventures Corporation	IPP	Alexander Wind Farm LLC	KS	58666	1	48.3	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	48.3
2015	12	59262	NRG Solar Oasis, LLC	IPP	NRG Solar Oasis LLC	CA	59528	OASIS	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2015	12	58718	Na Pua Makani Power Partners LLC	IPP	Na Pua Makani Wind Project	HI	58837	WT1	25.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	25.0
2015	12	55868	Noble Wind Operations LLC	IPP	Noble Bellmont Windpark LLC	NY	56903	1	21.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	21.0
2015	12	58477	O2energies, Inc.	IPP	Gates Solar LLC	NC	58673	GATES	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2015	12	58477	O2energies, Inc.	IPP	Montgomery Solar LLC	NC	58649	1	20.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	20.0
2015	12	58477	O2energies, Inc.	IPP	Yadkinville Solar	NC	59950	YAK	3.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.5
2015	12	59143	Old Mill Solar	IPP	Old Mill Solar	OR	59374	OMSLR	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2015	12	17470	PUD 1 of Snohomish County	Electric Utility	MESA 1	WA	60016	B	1.0	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	1.0
2015	12	15473	Public Service Co of NM	Electric Utility	La Luz Energy Center	NM	58284	0001	40.2	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	42.3
2015	12	15477	Public Service Elec & Gas Co	Electric Utility	L&D Landfill Solar	NJ	59601	L&D	10.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	10.0
2015	12	59514	River Mountains Solar, LLC	IPP	River Mountains Solar	NV	59747	1	14.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	14.4
2015	12	59710	SR Camden, LLC	IPP	SR Camden	AR	59947	AERO	12.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	12.0
2015	12	59766	SR Jenkins, LLC	IPP	SR Jenkins Ft Lupton	CO	60023	FTLUP	13.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	13.0
2015	12	59428	Sendero Wind Energy, LLC	IPP	Sendero Wind Energy	TX	59654	1	78.0	Onshore Wind Turbine	WND	WT	(TS) Construction complete, but not yet in commercial operation	78.0
2015	12	58872	Shannon Wind LLC	IPP	Shannon Wind	TX	59034	SHAN1	204.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	204.0
2015	12	59363	Silver State Solar Power South, LLC	IPP	Silver State Solar Power South	NV	58644	BLK2	27.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	27.9
2015	12	59363	Silver State Solar Power South, LLC	IPP	Silver State Solar Power South	NV	58644	BLK3	37.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	37.2
2015	12	59836	Simons Solar Farm LLC	IPP	Simons Farm	NC	59149	SIMON	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2015	12	59744	Solar Star Colorado III, LLC	IPP	Hooper Solar	CO	60008	SCCO3	52.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	52.0
2015	12	57313	SolarCity Corporation	IPP	Hewlett-Packard (HP) - Andover, MA	MA	60099	PV1	1.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.7
2015	12	57313	SolarCity Corporation	IPP	Onondaga County - Metro Water Board	NY	60097	PV1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2015	12	58674	Sonne One, LLC	IPP	Sonne One	NC	58782	PV1	5.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2015	12	17609	Southern California Edison Co	Electric Utility	Tehachapi Energy Storage Project	CA	59661	TSP1	8.0	Batteries	MWH	BA	(TS) Construction complete, but not yet in commercial operation	8.0
2015	12	17650	Southern Power Co	IPP	Butler Solar Farm 20	GA	59891	1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2015	12	17650	Southern Power Co	IPP	Decatur County Solar Project	GA	59449	DCSP1	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2015	12	17650	Southern Power Co	IPP	Decatur Parkway Solar Project, LLC	GA	59450	DPSP1	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2015	12	17650	Southern Power Co	IPP	Kay Wind, LLC	OK	59460	KNG1	299.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	299.0
2015	12	17650	Southern Power Co	IPP	Pawpaw Solar Plant	GA	59894	1	30.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	30.0
2015	12	59788	Steel Bridge Solar, LLC	IPP	Steel Bridge Solar, LLC	OR	60057	STEEL	2.3	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.3
2015	12	59716	SunE DB24 LLC	IPP	Milford 2	UT	59958	MIL2	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0

Table 6.5. Planned U.S. Electric Generating Unit Additions

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2015	12	59838	SunE DB27, LLC	IPP	Elkton Solar	MD	60089	ELKTN	1.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.6
2015	12	59695	SunE Solar XVII Project 3, LLC	IPP	Fiddler's Canyon 3	UT	59932	FID3	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2015	12	58658	Sunlight Partners	IPP	Amethyst Solar	NC	58730	PV1	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2015	12	58658	Sunlight Partners	IPP	Andrew Solar	NC	59497	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2015	12	58658	Sunlight Partners	IPP	Angel Solar	NC	58731	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2015	12	58658	Sunlight Partners	IPP	Audrey Solar	NC	58732	PV1	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2015	12	58658	Sunlight Partners	IPP	Beetle Solar	NC	59511	PV1	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
2015	12	58658	Sunlight Partners	IPP	Carol Jean Solar	NC	59017	GEN 1	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
2015	12	58658	Sunlight Partners	IPP	Chei Solar	NC	59508	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2015	12	58658	Sunlight Partners	IPP	Happy Solar	NC	59512	PV1	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
2015	12	58658	Sunlight Partners	IPP	Husky Solar	NC	59510	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2015	12	58658	Sunlight Partners	IPP	Jacob Solar	NC	59503	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2015	12	58658	Sunlight Partners	IPP	Kenneth Solar	NC	59507	PV1	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2015	12	58658	Sunlight Partners	IPP	Milo Solar	NC	58739	PV1	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2015	12	58658	Sunlight Partners	IPP	Minnie Solar	NC	58740	PV1	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2015	12	58658	Sunlight Partners	IPP	Murdock Solar	NC	59509	PV1	4.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.0
2015	12	58658	Sunlight Partners	IPP	Owen Solar	NC	58742	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2015	12	58658	Sunlight Partners	IPP	Sophie Solar	NC	58745	PV1	4.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.5
2015	12	58658	Sunlight Partners	IPP	Star Solar	NC	58746	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2015	12	58658	Sunlight Partners	IPP	Sun Devil Solar	NC	59505	PV1	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2015	12	58658	Sunlight Partners	IPP	Tracy Solar	NC	59498	PV1	10.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	10.0
2015	12	58661	Sustainable Power Group, LLC	IPP	Adera Solar	CA	60027	ADERA	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2015	12	58661	Sustainable Power Group, LLC	IPP	Citizen B	CA	59738	CSB	5.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	5.0
2015	12	58661	Sustainable Power Group, LLC	IPP	Hayworth Solar	CA	59009	PV1	27.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	27.0
2015	12	58661	Sustainable Power Group, LLC	IPP	Latigo Wind Park	UT	59965	LTIGO	62.1	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	62.1
2015	12	58661	Sustainable Power Group, LLC	IPP	SEPV 18	CA	59730	SPV18	2.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.0
2015	12	58661	Sustainable Power Group, LLC	IPP	Sandstone Solar	AZ	59634	SNDST	45.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	45.0
2015	12	58661	Sustainable Power Group, LLC	IPP	Spring Hill Road	MA	59839	SHRD1	1.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.9
2015	12	58661	Sustainable Power Group, LLC	IPP	Woodmere Solar Farm	CA	59008	PV1	15.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	15.0
2015	12	59781	TWE Chocowinity Solar	IPP	TWE Chocowinity Solar, LLC	NC	60048	FLS1	4.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	4.5
2015	12	59570	TWE Kelford Solar Project, LLC	IPP	Kelford	NC	59796	FLS1	4.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2015	12	18454	Tampa Electric Co	Electric Utility	TIA Solar	FL	59769	1	1.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.6
2015	12	58826	Thunder Spirit Wind, LLC	IPP	Thunder Spirit Wind, LLC	ND	58965	THNDR	107.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	107.5
2015	12	59598	Tooele Army Depot	IPP	Tooele Wind Turbine	UT	59817	GEN03	1.7	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.7
2015	12	59892	UCI Fuel Cell, LLC	IPP	UCI Fuel Cell	CA	60120	MB-16	1.4	Other Natural Gas	NG	FC	(OP) Operating	1.4
2015	12	19497	United Illuminating Co	Electric Utility	UI RCP Bridgeport Seaside	CT	60054	BPPV	2.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.2
2015	12	56918	University of California San Diego	Commercial	University of California San Diego	CA	57584	BS1	2.5	Batteries	MWH	BA	(V) Under construction, more than 50 percent complete	2.5
2015	12	58502	Utah Red Hills Renewable Energy Park LLC	IPP	Utah Red Hills Renewable Energy Park	UT	58660	1	80.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	80.0
2015	12	59690	Vance Solar Farm LLC	IPP	Vance Solar Farm, LLC	NC	59928	NB007	4.9	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	5.0
2015	12	56948	Waverly Wind Farm LLC	IPP	Waverly Wind Farm LLC	KS	57614	GEN1	199.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	199.0
2015	12	59768	West Hills Construction, Inc	IPP	Little Rock Pham Solar	CA	60026	PV1	3.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.0
2016	1	221	Alaska Village Elec Coop, Inc	Electric Utility	Hooper Bay	AK	6319	5A	0.8	Petroleum Liquids	DFO	IC	(TS) Construction complete, but not yet in commercial operation	0.8
2016	1	40577	American Mun Power-Ohio, Inc	Electric Utility	Cannelton Hydroelectric Plant	KY	57399	CG3	29.3	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	29.3
2016	1	40577	American Mun Power-Ohio, Inc	Electric Utility	Willow Island Hydroelectric Plant	WV	57401	WIG2	22.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	22.0
2016	1	58694	Argand Energy Solutions, LLC	IPP	Kenansville Solar 2, LLC	NC	58803	INV1	0.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	0.5
2016	1	58694	Argand Energy Solutions, LLC	IPP	Kenansville Solar 2, LLC	NC	58803	INV2	0.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	0.5
2016	1	58694	Argand Energy Solutions, LLC	IPP	Kenansville Solar 2, LLC	NC	58803	INV3	0.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	0.5
2016	1	58694	Argand Energy Solutions, LLC	IPP	Kenansville Solar 2, LLC	NC	58803	INV4	0.5	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	0.5
2016	1	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 1	0.2	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.2
2016	1	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 2	0.2	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.2
2016	1	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 3	0.2	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.2
2016	1	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 5	0.2	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.2
2016	1	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 6	0.2	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.2
2016	1	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 7	0.2	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.2
2016	1	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 8	0.2	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.2
2016	1	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN 9	0.2	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.2
2016	1	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN10	0.2	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.2
2016	1	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN11	0.2	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.2
2016	1	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN12	0.2	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.2
2016	1	58877	Blue Heron Hydro LLC	IPP	Ball Mountain Hydro	VT	59040	GEN4	0.2	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.2
2016	1	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN1	0.1	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.1
2016	1	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN10	0.1	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.1
2016	1	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN11	0.1	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.1
2016	1	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN12	0.1	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.1
2016	1	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN2	0.1	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.1
2016	1	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN3	0.1	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.1
2016	1	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN4	0.1	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.1
2016	1	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN5	0.1	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.1
2016	1	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN6	0.1	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.1
2016	1	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN7	0.1	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.1
2016	1	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN8	0.1	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.1
2016	1	58877	Blue Heron Hydro LLC	IPP	Townshend Hydro	VT	59089	GEN9	0.1	Conventional Hydroelectric	WAT	HY	(U) Under construction, less than or equal to 50 percent complete	0.1
2016	1	7977	City of Hamilton - (OH)	Electric Utility	Meldahl Hydroelectric Project	KY	56872	1	35.0	Conventional Hydroelectric	WAT	HY	(TS) Construction complete, but not yet in commercial operation	35.0
2016	1	7977	City of Hamilton - (OH)	Electric Utility	Meldahl Hydroelectric Project	KY	56872	2	35.0	Conventional Hydroelectric	WAT	HY	(TS) Construction complete, but not yet in commercial operation	35.0
2016	1	20069	City of Wamego - (KS)	Electric Utility	Wamego	KS	1328	10	2.9	Natural Gas Internal Combustion Engine	NG	IC	(TS) Construction complete, but not yet in commercial operation	3.2
2016	1	56769	Consolidated Edison Development Inc.	IPP	Corcoran Solar 3	CA	59900	C3CA	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2016	1	56769	Consolidated Edison Development Inc.	IPP	OCI Alamo 5 LLC	TX	59205	OCIA5	100.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	100.0
2016	1	3046	Duke Energy Progress - (NC)	Electric Utility	Elm City Solar Facility	NC	59164	NSC 1	40.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	40.0
2016	1	57170	EDF Renewable Asset Holdings, Inc.	IPP	Milo Wind Project LLC	NM	59838	GEN1	50.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	50.0
2016	1	57249	EPR Renewable Energy	IPP	Nashua Plant	NH	55006	UNT3	1.5	Landfill Gas	LFG	IC	(U) Under construction, less than or equal to 50 percent complete	1.6
2016	1	59735	Enerparc CA2, LLC	IPP	Enerparc CA2, LLC	CA	59978	ECA22	1.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.5
2016	1	58873	Green Energy Team LLC	IPP	Biomass to Energy Facility, Kauai	HI	59035	MKA1	8.3	Other Waste Biomass	AB	ST	(V) Under construction, more than 50 percent complete	9.3
2016	1	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	4	212.2	Natural Gas Fired Combined Cycle	NG	CT	(TS) Construction complete, but not yet in commercial operation	212.2
2016	1	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	5	118.9	Natural Gas Fired Combined Cycle	NG	CA	(TS) Construction complete, but not yet in commercial operation	118.9
2016	1	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	6	89.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	89.0
2016	1	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	7	89.0	Natural Gas Fired Combustion Turbine	NG	GT	(TS) Construction complete, but not yet in commercial operation	89.0
2016	1	26253	Louisiana Energy & Power Authority	Electric Utility	LEPA Unit No. 1	LA	58478	LEPA1	59.0	Natural Gas Fired Combined Cycle	NG	CC	(TS) Construction complete, but not yet in commercial operation	64.0
2016	1	58451	McCoy Solar, LLC	IPP	McCoy Solar Energy Project	CA	58462	BLK7	41.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	41.9
2016	1	12341	MidAmerican Energy Co	Electric Utility	Adams Wind	IA	59637	ADWF4	46.9			WT	(U) Under construction, less than or equal to 50 percent complete	48.2
2016	1	59322	Misenheimer Farm, LLC	IPP	Misenheimer Farm	NC	59577	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2016	1	59899	OEE XVII, LLC		Harpster Wind	OH	60126	H1	1.5	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	1.5
2016	1	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG1	0.6	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.6
2016	1	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG10	0.6	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.6
2016	1	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG2	0.6	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.6
2016	1	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG3	0.6	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.6
2016	1	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG4	0.6	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.6
2016	1	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG5	0.6	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.6
2016	1	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG6	0.6	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.6
2016	1	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG7	0.6	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.6
2016	1	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG8	0.6	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.6
2016	1	40229	Old Dominion Electric Coop	Electric Utility	Monterey Diesel Generation Facility	VA	59614	MDG9	0.6	Petroleum Liquids	DFO	IC	(V) Under construction, more than 50 percent complete	0.6
2016	1	58589	Orbit Energy Charlotte	IPP	Orbit Energy Charlotte	NC	58638	1	5.2	Other Waste Biomass	OBG	ST	(V) Under construction, more than 50 percent complete	5.2
2016	1	58417	Panda Liberty O&M LLC	IPP	Panda Liberty Generation Plant	PA	58420	GEN1	382.5	Natural Gas Fired Combined Cycle	NG	CC	(V) Under construction, more than 50 percent complete	435.0
2016	1	56545	Pattern Operators LP	IPP	Fowler Ridge IV Wind Farm LLC	IN	59547	1	150.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	150.0
2016	1	59491	Seville Solar One LLC	IPP	Seville 1	CA	59722	SEV1	20.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	20.0
2016	1	59363	Silver State Solar Power South, LLC	IPP	Silver State Solar Power South	NV	58644	BLK4	35.7	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	35.7
2016	1	57313	SolarCity Corporation	IPP	Jackson Board of Education-Liberty HS	NJ	60113	PV1	1.2	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.2
2016	1	57313	SolarCity Corporation	IPP	Oneida County- DPW	NY	60114	PV1	1.4	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.4
2016	1	57313	SolarCity Corporation	IPP	Town of Chestertown- Chestertown WWTP	MD	60096	PV1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2016	1	59139	SunEdison LLC	IPP	SunE- E Philadelphia Ontario	CA	59916	12307	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2016	1	59785	Syncarpha Palmer, LLC	IPP	Syncarpha Palmer, LLC	MA	60056	SYNPA	4.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.8
2016	1	59885	UIL Distributed Resources, LLC	IPP	UDR Glastonbury Fuel Cell	CT	60109	UDRFC	2.5	Other Natural Gas	NG	FC	(TS) Construction complete, but not yet in commercial operation	3.4

Table 6.5. Planned U.S. Electric Generating Unit Additions

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2016	1	19876	Virginia Electric & Power Co	Electric Utility	Philip Morris	VA	59911	1	2.4	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.4
2016	1	19876	Virginia Electric & Power Co	Electric Utility	Western Branch High School	VA	59904	1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2016	1	59330	Wormack Farm, LLC	IPP	Wormack Farm	NC	59585	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2016	2	40577	American Mun Power-Ohio, Inc	Electric Utility	Cannelton Hydroelectric Plant	KY	57399	CG1	29.3	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	29.3
2016	2	40577	American Mun Power-Ohio, Inc	Electric Utility	Cannelton Hydroelectric Plant	KY	57399	CG2	29.3	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	29.3
2016	2	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN01	3.4	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	3.4
2016	2	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN02	3.4	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	3.4
2016	2	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN03	3.4	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	3.4
2016	2	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN04	3.4	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	3.4
2016	2	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN05	3.4	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	3.4
2016	2	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN06	3.4	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	3.4
2016	2	59228	Bowerman Power LFG, LLC	IPP	Bowerman Power LFG, LLC	CA	59461	GEN07	3.4	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	3.4
2016	2	57260	CSOLAR IV West LLC	IPP	Imperial Solar Energy Center West	CA	57491	56819	148.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	148.7
2016	2	6455	Duke Energy Florida, Inc	Electric Utility	Central Florida Solar Facility	FL	59973	XXXXX	4.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	4.9
2016	2	6455	Duke Energy Florida, Inc	Electric Utility	Osceola Solar Facility	FL	59954	XXXXX	3.8	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.8
2016	2	59745	First Solar Asset Management	IPP	Kingbird A Solar LLC	CA	59868	GEN01	40.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	40.0
2016	2	4361	Ingredion Inc - Stockton	Industrial	Ingredion Stockton	CA	52115	GEN2	6.5	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	7.2
2016	2	59784	Innovative Solar 63, LLC	IPP	Innovative Solar 63, LLC	NC	60053	FLS1	4.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.9
2016	2	58773	Kingfisher Wind LLC	IPP	Kingfisher Wind LLC	OK	58902	KNG1	298.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	298.0
2016	2	59897	LKL Goldfinch, LLC	IPP	Goldfinch	FL	60124	GFNCH	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2016	2	59791	Lindberg Field Solar I LLC	IPP	Lindberg Field Solar	CA	60060	SDIA2	2.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.1
2016	2	59791	Lindberg Field Solar I LLC	IPP	Lindberg Field Solar	CA	60060	SDIAB	0.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	0.5
2016	2	12341	MidAmerican Energy Co	Electric Utility	Adams Wind	IA	59637	ADWF5	9.4		SUN	WT	(U) Under construction, less than or equal to 50 percent complete	9.6
2016	2	12524	Midwest Energy Inc	Electric Utility	Goodman Energy Center	KS	56497	10	9.2	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	2	12524	Midwest Energy Inc	Electric Utility	Goodman Energy Center	KS	56497	11	9.2	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	2	12524	Midwest Energy Inc	Electric Utility	Goodman Energy Center	KS	56497	12	9.2	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	2	58417	Panda Liberty O&M LLC	IPP	Panda Liberty Generation Plant	PA	58420	GEN2	382.5	Natural Gas Fired Combined Cycle	NG	CC	(V) Under construction, more than 50 percent complete	435.0
2016	2	59363	Silver State Solar Power South, LLC	IPP	Silver State Solar Power South	NV	58644	BLK5	35.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	35.0
2016	2	57313	SolarCity Corporation	IPP	Onondaga County - Oak Orchard WWTP	NY	60098	PV1	2.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.0
2016	2	17650	Southern Power Co	IPP	Grant Wind, LLC	OK	60013	GRANT	151.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	151.8
2016	2	59773	SunE Solar XVI Lessor, LLC	IPP	SunE Rochester	CA	60032	RCHTR	1.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	1.0
2016	2	58984	Winton Solar LLC	IPP	Winton Solar	NC	59177	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2016	2	58982	Woodland Solar LLC	IPP	Woodland Solar	NC	59175	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2016	3	59474	BQ Energy LLC	IPP	Steel Sun	NY	59705	SSUN2	2.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	3	7977	City of Hamilton - (OH)	Electric Utility	Meldahl Hydroelectric Project	KY	56872	3	35.0	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	35.0
2016	3	59402	Garysburg Solar LLC	IPP	Garysburg Solar	NC	59641	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2016	3	59403	Gaston Solar LLC	IPP	Gaston Solar	NC	59642	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2016	3	58451	McCoy Solar, LLC	IPP	McCoy Solar Energy Project	CA	58462	1	41.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	41.9
2016	3	12320	Merck & Co Inc	Industrial	Elkton	VA	52148	GEN3	1.0	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	1.0
2016	3	12320	Merck & Co Inc	Industrial	Elkton	VA	52148	GEN4	0.3	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	0.3
2016	3	58421	Panda Patriot O&M LLC	IPP	Panda Patriot Generation Plant	PA	58426	GEN1	382.5	Natural Gas Fired Combined Cycle	NG	CC	(V) Under construction, more than 50 percent complete	435.0
2016	3	59404	Seaboard Solar LLC	IPP	Seaboard Solar LLC	NC	59643	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2016	3	59363	Silver State Solar Power South, LLC	IPP	Silver State Solar Power South	NV	58644	BLK6	36.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	36.6
2016	3	59698	Sky Global Power One Pledgor, LLC	IPP	Sky Global Power One	TX	59938	UNIT1	8.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	8.5
2016	3	59698	Sky Global Power One Pledgor, LLC	IPP	Sky Global Power One	TX	59938	UNIT2	8.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	8.5
2016	3	59698	Sky Global Power One Pledgor, LLC	IPP	Sky Global Power One	TX	59938	UNIT3	8.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	8.5
2016	3	59698	Sky Global Power One Pledgor, LLC	IPP	Sky Global Power One	TX	59938	UNIT4	8.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	8.5
2016	3	59698	Sky Global Power One Pledgor, LLC	IPP	Sky Global Power One	TX	59938	UNIT5	8.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	8.5
2016	3	59698	Sky Global Power One Pledgor, LLC	IPP	Sky Global Power One	TX	59938	UNIT6	8.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	8.5
2016	3	57313	SolarCity Corporation	IPP	US-TOPCO (Soccer Center)	CA	60086	PV1	3.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.0
2016	3	59412	Tarboro Solar LLC	IPP	Tarboro Solar	NC	59648	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2016	3	24211	Tucson Electric Power Co	Electric Utility	Fort Huachuca Solar PV Project	AZ	58972	FHUA2	4.1	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.1
2016	3	59347	W Power LLC	IPP	Nicolis Solar PV Plant	CA	59600	GEN1	19.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2016	3	59347	W Power LLC	IPP	Tropico Solar PV Plant	CA	59599	GEN1	13.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	14.0
2016	4	59359	BHE Renewables, LLC	IPP	Marshall Wind Farm	KS	59084	RPMA	73.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	73.8
2016	4	1307	Basin Electric Power Coop	Electric Utility	Lonesome Creek Station	ND	57943	04	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	60.5
2016	4	1307	Basin Electric Power Coop	Electric Utility	Lonesome Creek Station	ND	57943	05	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	60.5
2016	4	59842	Blythe Solar 110, LLC	IPP	Blythe Solar 110, LLC	CA	60093	BLCK2	36.3	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	36.3
2016	4	4254	Consumers Energy Co	IPP	Grand Valley Solar Gardens	MI	60118	1	3.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.0
2016	4	58970	Ecoplexus, Inc	IPP	Meadows PV 1	NC	59513	MEAD1	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2016	4	59765	Eight Flags Energy LLC	IPP	Eight Flags Energy	FL	60025	01	19.8	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	21.0
2016	4	6452	Florida Power & Light Co	Electric Utility	FIU Solar	FL	60006	1	0.8	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.6
2016	4	59776	Frontier Solar, LLC	IPP	Frontier Solar LLC	CA	60039	FTR5	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2016	4	7393	Golden Valley Elec Assn Inc	Electric Utility	Chena	AK	6288	2	50.0	Conventional Steam Coal	LIG	ST	(TS) Construction complete, but not yet in commercial operation	50.0
2016	4	9267	Hoosier Energy R E C, Inc	Electric Utility	Orchard Hills Renewable Energy Station	IL	59792	1	2.3	Landfill Gas	LFG	IC	(U) Under construction, less than or equal to 50 percent complete	2.7
2016	4	9267	Hoosier Energy R E C, Inc	Electric Utility	Orchard Hills Renewable Energy Station	IL	59792	2	2.3	Landfill Gas	LFG	IC	(U) Under construction, less than or equal to 50 percent complete	2.7
2016	4	9267	Hoosier Energy R E C, Inc	Electric Utility	Orchard Hills Renewable Energy Station	IL	59792	3	2.3	Landfill Gas	LFG	IC	(U) Under construction, less than or equal to 50 percent complete	2.7
2016	4	9267	Hoosier Energy R E C, Inc	Electric Utility	Orchard Hills Renewable Energy Station	IL	59792	4	2.3	Landfill Gas	LFG	IC	(U) Under construction, less than or equal to 50 percent complete	2.7
2016	4	9267	Hoosier Energy R E C, Inc	Electric Utility	Orchard Hills Renewable Energy Station	IL	59792	5	2.3	Landfill Gas	LFG	IC	(U) Under construction, less than or equal to 50 percent complete	2.7
2016	4	9267	Hoosier Energy R E C, Inc	Electric Utility	Orchard Hills Renewable Energy Station	IL	59792	6	2.3	Landfill Gas	LFG	IC	(U) Under construction, less than or equal to 50 percent complete	2.7
2016	4	11208	Los Angeles Department of Water & Power	Electric Utility	Maclay Solar Project	CA	57308	1	2.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	2.2
2016	4	9436	Mosaic Phosphates Co	Industrial	Mosaic Phosphates Uncle Sam	LA	10198	GEN3	15.0	All Other	OTH	ST	(V) Under construction, more than 50 percent complete	15.0
2016	4	59363	Silver State Solar Power South, LLC	IPP	Silver State Solar Power South	NV	58644	BLK7	35.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	35.0
2016	4	57313	SolarCity Corporation	IPP	BJ's Wholesale Club, Inc- Uxbridge	MA	60116	PV1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2016	4	57313	SolarCity Corporation	IPP	Oregon Convention Center	OR	60112	PV1	1.4	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.4
2016	4	57313	SolarCity Corporation	IPP	Town of Halfmoon	NY	60115	PV1	1.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	1.0
2016	4	57313	SolarCity Corporation	IPP	Town of Needham VNEM	MA	60110	PV1	3.0	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.0
2016	4	57313	SolarCity Corporation	IPP	Williamsburg Solar LLC VNEM	MA	60111	PV1	2.2	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	2.2
2016	4	59772	SunE Solar XVIII Project 1, LLC	IPP	SunE Redlands	CA	60031	RDND5	1.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.5
2016	4	58661	Sustainable Power Group, LLC	IPP	SEPV Mojave West	CA	59740	SPVMW	20.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	20.0
2016	4	18642	Tennessee Valley Authority	Electric Utility	Watts Bar Nuclear Plant	TN	7722	2	1,122.0	Nuclear	NUC	ST	(V) Under construction, more than 50 percent complete	1,269.9
2016	4	56694	Thermo No 1 BE 01 LLC	IPP	Thermo Solar PV-01	UT	59883	SOLAR	2.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.9
2016	4	59731	Windham Solar LLC	IPP	Lebanon Solar 1	CT	59991	LEB1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2016	4	59731	Windham Solar LLC	IPP	Lebanon Solar 2	CT	59992	LEB2	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2016	5	58685	Beaver Dam Energy LLC	IPP	Beaver Dam	PA	58811	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	4.4
2016	5	58685	Beaver Dam Energy LLC	IPP	Beaver Dam	PA	58811	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	4.4
2016	5	58685	Beaver Dam Energy LLC	IPP	Beaver Dam	PA	58811	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	4.4
2016	5	58685	Beaver Dam Energy LLC	IPP	Beaver Dam	PA	58811	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	4.4
2016	5	58685	Beaver Dam Energy LLC	IPP	Beaver Dam	PA	58811	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(U) Under construction, less than or equal to 50 percent complete	4.4
2016	5	59842	Blythe Solar 110, LLC	IPP	Blythe Solar 110, LLC	CA	60093	BLCK3	34.8	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	34.8
2016	5	56769	Consolidated Edison Development Inc.	IPP	CED Ducor 1	CA	60078	DU1CA	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2016	5	58468	Dominion Renewable Energy	IPP	Marin Carport	CA	59703	1	1.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	1.0
2016	5	6455	Duke Energy Florida, Inc	Electric Utility	Perry Solar Facility	FL	60071	XXXXX	5.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.1
2016	5	5701	El Paso Electric Co	Electric Utility	Montana Power Station	TX	58562	GT-3	100.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	131.8
2016	5	7349	Golden Spread Electric Cooperative, Inc	Electric Utility	Elk Station	TX	58835	ELK2	189.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	202.0
2016	5	7349	Golden Spread Electric Cooperative, Inc	Electric Utility	Elk Station	TX	58835	ELK3	189.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	202.0
2016	5	9267	Hoosier Energy R E C, Inc	Electric Utility	New Haven Solar RES	IN	59983	PV1	1.1	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.1
2016	5	9273	Indianapolis Power & Light Co	Electric Utility	Harding Street	IN	990	BAT1	20.0	Batteries	MWH	BA	(P) Planned for installation, but regulatory approvals not initiated	20.0
2016	5	11208	Los Angeles Department of Water & Power	IPP	Foothill Solar Project	CA	59799	W4528	1.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.1
2016	5	59120	Los Vientos Windpower IV, LLC	IPP	Los Vientos Windpower IV	TX	59321	GEN1	200.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	200.0
2016	5	59669	Louisburg Solar LLC	IPP	Louisburg Solar	NC	59895	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	5	58451	McCoy Solar, LLC	IPP	McCoy Solar Energy Project	CA	58462	BLK2	21.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	21.0
2016	5	58421	Panda Patriot O&M LLC	IPP	Panda Patriot Generation Plant	PA	58426	GEN2	382.5	Natural Gas Fired Combined Cycle	NG	CC	(V) Under construction, more than 50 percent complete	435.0
2016	5	15248	Portland General Electric Co	Electric Utility	Carty Generating Station	OR	58503	GEN1	300.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	300.0
2016	5	15248	Portland General Electric Co	Electric Utility	Carty Generating Station	OR	58503	GEN2	200.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	200.0
2016	5	57313	SolarCity Corporation	IPP	AVS Lancaster 1	CA	60085	PV1	3.7	Solar Photovoltaic	SUN	PV	(TS) Construction complete, but not yet in commercial operation	3.7
2016	5	58658	Sunlight Partners	IPP	Candace Solar	NC	59499	PV1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2016	5	58661	Sustainable Power Group, LLC	IPP	Leavenworth Greenworks LLC	NY	59276	LEAVG	9.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	9.5
2016	5	19876	Virginia Electric & Power Co	Electric Utility	Brunswick County Power Station	VA	58260	CT01	263.9	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	297.5
2016	5	19876	Virginia Electric & Power Co	Electric Utility	Brunswick County Power Station	VA	58260	CT02	263.9	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	297.5
2016	5	19876	Virginia Electric & Power Co	Electric Utility	Brunswick County Power Station	VA	58260	CT03	263.9	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	297.5
2016	5	19876	Virginia Electric & Power Co	Electric Utility	Brunswick County Power Station	VA	58260	ST01	579.4	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	579.7

Table 6.5. Planned U.S. Electric Generating Unit Additions

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2016	5	19876	Virginia Electric & Power Co	Electric Utility	Merck	VA	59905	1	2.1	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.1
2016	5	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-1	0.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.5
2016	5	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-2	0.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.5
2016	5	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-3	0.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.5
2016	5	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-4	0.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.5
2016	5	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-5	0.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.5
2016	5	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-6	0.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.5
2016	5	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-7	0.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.5
2016	5	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-8	0.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.5
2016	5	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV-9	0.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.5
2016	5	58600	Waihonu North LLC	IPP	Waihonu North Solar	HI	58655	INV10	0.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.5
2016	5	58601	Waihonu South LLC	IPP	Honbushin Solar Blessings Park	HI	58656	INV-1	0.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.5
2016	5	58601	Waihonu South LLC	IPP	Honbushin Solar Blessings Park	HI	58656	INV-2	0.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.5
2016	5	58601	Waihonu South LLC	IPP	Honbushin Solar Blessings Park	HI	58656	INV-3	0.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	0.5
2016	5	59840	Wallace Solar 2 LLC	IPP	Wallace Solar 2	NC	60090	2MWPV	1.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	1.9
2016	5	20910	Wolverine Power Supply Coop	Electric Utility	Alpine Power Plant	MI	59926	AI1	202.6	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	226.9
2016	5	20910	Wolverine Power Supply Coop	Electric Utility	Alpine Power Plant	MI	59926	AI2	202.6	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	226.9
2016	6	772	Archer Daniels Midland Co	Industrial	Archer Daniels Midland Cedar Rapids	IA	10864	GEN7	35.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	38.5
2016	6	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	11	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	6	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	12	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	6	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	13	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	6	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	14	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	6	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	15	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	6	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	16	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	6	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	17	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	6	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	18	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	6	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	19	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	6	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	20	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	6	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	21	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	6	1307	Basin Electric Power Coop	Electric Utility	Pioneer Generating Station	ND	57881	22	9.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	9.3
2016	6	57421	BayWa r.e Wind LLC	IPP	Chopin Wind LLC	OR	59076	WT1	10.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	10.0
2016	6	58662	Blue Mountain Power Partners	IPP	Blue Mountain Wind Farm	UT	58764	BM1	80.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	80.0
2016	6	59006	Calypso Farm LLC	IPP	Calypso Farm	NC	59212	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	6	58871	Citizens Enterprises Corporation	IPP	Hunt Road Solar	MA	59927	PV1	4.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.5
2016	6	14534	City of Pasadena - (CA)	Electric Utility	Glenarm	CA	422	GT5	68.0	Natural Gas Fired Combined Cycle	NG	CC	(V) Under construction, more than 50 percent complete	71.0
2016	6	59007	Clipperton Holdings LLC	IPP	Clipperton Holdings	NC	59213	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	6	59429	Comanche LLC	IPP	Comanche Solar	CO	59656	COMCH	120.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	120.0
2016	6	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5EG	1.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	1.0
2016	6	58970	Ecoplexus, Inc	IPP	Grandy PV 1	NC	59518	GRAND	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	6	58970	Ecoplexus, Inc	IPP	Manning PV 1	NC	59520	MANN	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	6	5860	Empire District Electric Co	Electric Utility	Riverton	KS	1239	12-2	138.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	250.0
2016	6	56625	Flat Water Wind Farm LLC	IPP	Flat Water Wind Farm LLC	NE	57283	WTG2	10.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	10.5
2016	6	6452	Florida Power & Light Co	Electric Utility	Port Everglades	FL	617	5A	1,260.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	296.0
2016	6	6452	Florida Power & Light Co	Electric Utility	Port Everglades	FL	617	5B		Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	296.0
2016	6	6452	Florida Power & Light Co	Electric Utility	Port Everglades	FL	617	5C		Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	296.0
2016	6	6452	Florida Power & Light Co	Electric Utility	Port Everglades	FL	617	55T		Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	464.0
2016	6	59002	Garland Farm LLC	IPP	Garland Farm	NC	59209	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	6	7140	Georgia Power Co	Electric Utility	Fort Benning Solar Facility	GA	59862	1	30.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	30.0
2016	6	59008	Guersney Holdings LLC	IPP	Guernsey Holdings	NC	59214	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	6	19547	Hawaiian Electric Co Inc	Electric Utility	HNL Emergency Power Facility	HI	58469	AP1	2.5	Other Waste Biomass	OBL	IC	(V) Under construction, more than 50 percent complete	2.5
2016	6	59000	Holger Holdings LLC	IPP	Holger Holdings	NC	59218	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	6	59442	Innovative Solar 33, LLC	IPP	Innovative Solar 33	NC	59672	IS033	30.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	30.5
2016	6	59441	Innovative Solar 46, LLC	IPP	Innovative Solar 46	NC	59671	IS046	78.5	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	78.5
2016	6	59436	Innovative Solar 47, LLC	IPP	Innovative Solar 47	NC	59666	IS047	33.8	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	33.8
2016	6	59438	Innovative Solar 53, LLC	IPP	Innovative Solar 53	NC	59668	IS053	40.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	40.0
2016	6	59439	Innovative Solar 54, LLC	IPP	Innovative Solar 54	NC	59669	IS054	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2016	6	59446	Innovative Solar 55, LLC	IPP	Innovative Solar 55	NC	59676	IS044	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	6	59447	Innovative Solar 64, LLC	IPP	Innovative Solar 64	NC	59677	IS064	4.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.9
2016	6	59448	Innovative Solar 67, LLC	IPP	Innovative Solar 67	NC	59678	IS067	33.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	33.3
2016	6	59449	Innovative Solar 68, LLC	IPP	Innovative Solar 68	NC	59679	IS068	48.3	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	48.3
2016	6	58673	Longhorn Holdings, LLC	IPP	Longhorn Holdings	NC	58781	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	6	59343	Maricopa East Solar PV, LLC	IPP	Maricopa East Solar	CA	59609	MES	18.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	18.0
2016	6	58451	McCoy Solar, LLC	IPP	McCoy Solar Energy Project	CA	58462	BLK3	39.6	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	39.6
2016	6	59668	Mount Olive Solar LLC	IPP	Mount Olive Solar	NC	59908	2MWPV	2.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.0
2016	6	54888	NRG Texas Power LLC	IPP	P H Robinson	TX	3466	PHR1	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	71.2
2016	6	54888	NRG Texas Power LLC	IPP	P H Robinson	TX	3466	PHR2	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	71.2
2016	6	54888	NRG Texas Power LLC	IPP	P H Robinson	TX	3466	PHR3	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	71.2
2016	6	54888	NRG Texas Power LLC	IPP	P H Robinson	TX	3466	PHR4	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	71.2
2016	6	54888	NRG Texas Power LLC	IPP	P H Robinson	TX	3466	PHR5	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	71.2
2016	6	54888	NRG Texas Power LLC	IPP	P H Robinson	TX	3466	PHR6	60.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	71.2
2016	6	59099	New Dimension Energy Company, LLC	IPP	Westwind Trust	CA	54258	WTG5	15.6	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	15.6
2016	6	59893	Northern Water Hydropower Enterprise	Commercial	Granby Hydro	CO	60119	GEN1	1.2	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	1.2
2016	6	59492	Seville Solar Two LLC	IPP	Seville 2	CA	59723	SEV2	30.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	30.0
2016	6	59363	Silver State Solar Power South, LLC	IPP	Silver State Solar Power South	NV	58644	BLK8	16.2	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	16.2
2016	6	58704	Sonne Two LLC	IPP	Sonne Two	NC	58829	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	6	59837	South Plains Wind Energy II, LLC	IPP	South Plains II	TX	60087	SPI	300.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	300.0
2016	6	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG01	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	6	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG02	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	6	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG03	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	6	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG04	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	6	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG05	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	6	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG06	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	6	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG07	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	6	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG08	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	6	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG09	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	6	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG10	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	6	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG11	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	6	17583	South Texas Electric Coop, Inc	Electric Utility	Red Gate Power Plant	TX	59391	ENG12	18.3	Natural Gas Internal Combustion Engine	NG	IC	(V) Under construction, more than 50 percent complete	18.7
2016	6	59318	Soy Solar LLC	IPP	Soy Solar	NC	59571	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	6	18125	Stillwater Utilities Authority	Electric Utility	Stillwater Energy Center	OK	59647	1	18.3	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	18.8
2016	6	18125	Stillwater Utilities Authority	Electric Utility	Stillwater Energy Center	OK	59647	2	18.3	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	18.8
2016	6	18125	Stillwater Utilities Authority	Electric Utility	Stillwater Energy Center	OK	59647	3	18.3	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	18.8
2016	6	58661	Sustainable Power Group, LLC	IPP	Lancaster WAD B	CA	59739	LWADB	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	6	58661	Sustainable Power Group, LLC	IPP	Western Antelope Blue Sky B	CA	59961	WABSB	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	6	59569	TWE Ahoskie Solar Project, LLC	IPP	Ahoskie	NC	59795	FLS1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2016	6	59011	Tiburon Holdings	IPP	Tiburon Holdings	NC	59217	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	6	59116	WED Coventry Five, LLC	IPP	WED Coventry 5	RI	59313	COV5	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2016	6	59108	WED Coventry Four, LLC	IPP	WED Coventry 4	RI	59306	WEDC4	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2016	6	59105	WED Coventry One, LLC	IPP	WED Coventry 1	RI	59301	WEDC1	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2016	6	59117	WED Coventry Six, LLC	IPP	WED Coventry 6	RI	59314	COV6	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2016	6	59117	WED Coventry Six, LLC	IPP	WED Coventry 6	RI	59314	COV6A	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2016	6	59117	WED Coventry Six, LLC	IPP	WED Coventry 6	RI	59314	COV6B	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2016	6	59107	WED Coventry Three, LLC	IPP	WED Coventry 3	RI	59305	WEDC3	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2016	6	59106	WED Coventry Two, LLC	IPP	WED Coventry 2	RI	59302	COV2	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2016	6	59106	WED Coventry Two, LLC	IPP	WED Coventry 2	RI	59302	COV2A	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2016	6	59106	WED Coventry Two, LLC	IPP	WED Coventry 2	RI	59302	COV2B	1.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	1.5
2016	6	56334	WEHRAN Energy Corporation	IPP	Brookhaven Facility	NY	55778	BH5	0.5	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	0.5
2016	6	56334	WEHRAN Energy Corporation	IPP	Brookhaven Facility	NY	55778	BH6	0.5	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	0.5
2016	7	56769	Consolidated Edison Development Inc.	IPP	CED Ducor 2	CA	60079	DU2CA	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2016	7	56769	Consolidated Edison Development Inc.	IPP	CED Ducor 3	CA	60080	DU3CA	15.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.0
2016	7	56769	Consolidated Edison Development Inc.	IPP	Oro Loma	CA	59915	ORCA	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2016	7	59155	First Wind O&M, LLC	IPP	Enterprise Solar, LLC	UT	59386	ENTS1	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0

Table 6.5. Planned U.S. Electric Generating Unit Additions

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2016	7	59258	Five Points Solar Park, LLC	IPP	Five Points Solar Park	CA	59523	FRFSP	60.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	60.0
2016	7	25438	Friant Power Authority	IPP	Friant Hydro Facility	CA	50393	RO2	9.0	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	6.9
2016	7	9324	Indiana Michigan Power Co	Electric Utility	Twin Branch PV	IN	59861	TBPV1	2.6	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	2.6
2016	7	58489	OCI Solar Power	IPP	OCI Alamo 6 LLC	TX	59206	OCIA6	105.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	105.0
2016	7	58661	Sustainable Power Group, LLC	IPP	Aspiration G	CA	59737	ASPRG	9.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	9.0
2016	7	58661	Sustainable Power Group, LLC	IPP	Elevation Solar C	CA	59964	ELVSC	40.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	40.0
2016	7	58661	Sustainable Power Group, LLC	IPP	Hecate Energy Beacon Solar 1	CA	59315	BEAC1	56.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	56.0
2016	7	58661	Sustainable Power Group, LLC	IPP	Hecate Energy Beacon Solar 3	CA	59316	BEAC3	56.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	56.0
2016	7	58661	Sustainable Power Group, LLC	IPP	Hecate Energy Beacon Solar 4	CA	59317	BEAC4	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2016	7	59826	Syncarpha Bondsville, LLC	IPP	Palmer Landfill	MA	60076	SYNPL	4.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.0
2016	7	19876	Virginia Electric & Power Co	Electric Utility	Remington Solar Facility	VA	59685	01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	7	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (WI)	WI	59836	11	4.6	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	4.6
2016	7	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (WI)	WI	59836	12	4.6	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	4.6
2016	8	58897	705M 8me LLC	IPP	Calipatria Solar Farm	CA	59088	GEN 1	20.0	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	20.0
2016	8	59259	Blackwell Solar Park, LLC	IPP	Blackwell Solar Park	CA	59524	FRBSP	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2016	8	59843	Blythe Solar II, LLC	IPP	Blythe Solar II, LLC	CA	60092	BLCK5	33.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	33.9
2016	8	56769	Consolidated Edison Development Inc.	IPP	CED Avenal	CA	60077	AVCA	15.8	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	15.8
2016	8	4329	Copper Valley Elec Assn, Inc	Electric Utility	Allison Creek Hydro	AK	58982	GEN1	6.5	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	6.5
2016	8	59155	First Wind O&M, LLC	IPP	Escalante Solar I, LLC	UT	59387	ESCS1	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2016	8	59155	First Wind O&M, LLC	IPP	Escalante Solar II, LLC	UT	59388	ESCS2	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2016	8	59155	First Wind O&M, LLC	IPP	Escalante Solar III, LLC	UT	59389	ESCS3	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2016	8	59709	Granite Mountain Solar East LLC	IPP	Granite Mountain Solar East	UT	59946	GMSE	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2016	8	59708	Granite Mountain Solar West, LLC	IPP	Granite Mountain Solar West	UT	59945	GMSW	51.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	51.3
2016	8	59705	Iron Springs Solar, LLC	IPP	Iron Springs Solar	UT	59941	ISS	80.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	80.0
2016	8	58489	OCI Solar Power	IPP	OCI Alamo 7 LLC	TX	59207	OCIA7	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2016	8	59253	Oregon Windfarms, LLC	IPP	Benson Creek Windfarm	OR	59491	BCW	10.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	10.0
2016	8	59253	Oregon Windfarms, LLC	IPP	Durbin Creek Windfarm	OR	59492	DCW	10.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	10.0
2016	8	59253	Oregon Windfarms, LLC	IPP	Jett Creek Windfarm	OR	59490	JCW	10.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	10.0
2016	8	59253	Oregon Windfarms, LLC	IPP	Prospector Windfarm	OR	59493	PW	10.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	10.0
2016	8	59253	Oregon Windfarms, LLC	IPP	Willow Spring Windfarm	OR	59494	WSW	10.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	10.0
2016	8	17470	PUD 1 of Snohomish County	Electric Utility	MESA 2	WA	60021	MESA2	2.4	Batteries	MWH	BA	(L) Regulatory approvals pending. Not under construction	2.4
2016	8	59728	RE Astoria 2 LLC	IPP	RE Astoria 2	CA	59977	ASTR2	75.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	75.0
2016	8	59727	RE Astoria LLC	IPP	RE Astoria	CA	59976	ASTR1	100.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	100.0
2016	9	59616	63SU 8me, LLC	IPP	Springbok Solar Farm 2	CA	59840	SB2	155.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	155.0
2016	9	55918	Cascina Wind Energy USA LLC	IPP	San Roman Wind 1, LLC	TX	59712	SRW1	93.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	93.0
2016	9	213	Alaska Electric Light&Power Co	Electric Utility	Industrial Plant	AK	59793	15	25.0	Petroleum Liquids	DFO	GT	(T) Regulatory approvals received. Not under construction	25.0
2016	9	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG1	25.3	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	25.3
2016	9	59520	BWC Origination 5, LLC	IPP	BlueWave Capital-Mattapoisett (SREC II)	MA	59753	1	4.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.5
2016	9	59843	Blythe Solar II, LLC	IPP	Blythe Solar II, LLC	CA	60092	BLCK6	32.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	32.0
2016	9	11268	City of Lowell - (MI)	Electric Utility	Chatham	MI	58254	CT02R	3.2	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	3.6
2016	9	56769	Consolidated Edison Development Inc.	IPP	CED Ducor 4	CA	60081	DU4CA	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2016	9	4254	Consumers Energy Co	IPP	Western Michigan Solar Gardens	MI	60117	1	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2016	9	58970	Ecoplexus, Inc	IPP	Turkey Creek PV1	NC	60000	TRKCK	13.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	13.5
2016	9	58970	Ecoplexus, Inc	IPP	Vaughn Creek PV1	NC	60001	VNCRK	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	9	59745	First Solar Asset Management	IPP	Moapa Southern Paiute	NV	57859	1	250.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	250.0
2016	9	59745	First Solar Asset Management	IPP	Stateline Solar	NV	58646	STL	299.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	299.9
2016	9	56615	First Solar Project Development	IPP	Little Bear Solar 1, LLC	CA	59870	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	9	56615	First Solar Project Development	IPP	Little Bear Solar 2, LLC	CA	59885	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	9	59481	Franklinton Solar LLC	IPP	Franklinton Solar	NC	59708	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	9	58909	Fremont Farm LLC	IPP	Fremont Farm	NC	59103	1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	9	59806	Grand View PV Solar Two, LLC	IPP	Grand View Solar Two	ID	60068	GVS2	60.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	60.0
2016	9	59806	Grand View PV Solar Two, LLC	IPP	Grand View Solar Two	ID	60068	GVS5	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2016	9	9216	Imperial Irrigation District	Electric Utility	El Centro	CA	389	BESS	28.0	Batteries	MWH	BA	(T) Regulatory approvals received. Not under construction	30.0
2016	9	9324	Indiana Michigan Power Co	Electric Utility	Waterviiet PV	MI	59853	WVPV1	4.6	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	4.6
2016	9	59680	Lillington Solar LLC	IPP	Lillington Solar	NC	59921	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	9	59761	McLean Homestead, LLC	IPP	McLean Homestead	NC	60020	PV1	4.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	4.9
2016	9	58159	Penn State University	Commercial	West Campus Steam Plant	PA	58194	WC 4	0.6	Conventional Steam Coal	BIT	ST	(T) Regulatory approvals received. Not under construction	2.9
2016	9	58159	Penn State University	Commercial	West Campus Steam Plant	PA	58194	WC 5	0.6	Conventional Steam Coal	BIT	ST	(T) Regulatory approvals received. Not under construction	2.2
2016	9	56895	Pio Pico Energy Center LLC	IPP	Pio Pico Energy Center	CA	57555	CTG1	97.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	107.0
2016	9	56895	Pio Pico Energy Center LLC	IPP	Pio Pico Energy Center	CA	57555	CTG2	97.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	107.0
2016	9	56895	Pio Pico Energy Center LLC	IPP	Pio Pico Energy Center	CA	57555	CTG3	97.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	107.0
2016	9	59682	Pollocksville Solar LLC	IPP	Pollocksville Solar	NC	59917	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	9	59713	Potrero Hills Energy Producers, LLC	IPP	Potrero Hills Energy Producers	CA	59952	1	1.6	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	1.6
2016	9	59713	Potrero Hills Energy Producers, LLC	IPP	Potrero Hills Energy Producers	CA	59952	2	1.6	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	1.6
2016	9	59713	Potrero Hills Energy Producers, LLC	IPP	Potrero Hills Energy Producers	CA	59952	3	1.6	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	1.6
2016	9	59713	Potrero Hills Energy Producers, LLC	IPP	Potrero Hills Energy Producers	CA	59952	4	1.6	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	1.6
2016	9	59713	Potrero Hills Energy Producers, LLC	IPP	Potrero Hills Energy Producers	CA	59952	5	1.6	Landfill Gas	LFG	IC	(V) Under construction, more than 50 percent complete	1.6
2016	9	58968	RE Mustang LLC	IPP	RE Mustang LLC	CA	59150	PV1	100.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	100.0
2016	9	59741	RE Roserock	IPP	RE Roserock	TX	59994	ROSEK	157.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	160.0
2016	9	59700	RE Tranquillity LLC	IPP	RE Tranquillity	CA	59939	TO	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	205.3
2016	9	59662	Riverside Fuel Cell, LLC	Commercial	Riverside RWQCP Fuel Cell	CA	59877	MB20	1.4	Other Waste Biomass	OBG	FC	(P) Planned for installation, but regulatory approvals not initiated	1.4
2016	9	59109	SUNE BEACON SITE 2, LLC	IPP	Beacon Solar Plant Site 2	CA	59309	BEAC2	48.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	48.0
2016	9	59681	Smithfield Solar LLC	IPP	Smithfield Solar LLC	NC	59920	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	9	59605	South Louisburg Solar LLC	IPP	South Louisburg Solar	NC	59825	5MWPV	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	9	59138	SunPower Corporation, Systems	IPP	Rio Bravo Solar 1 LLC	CA	59249	PV1	19.5	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2016	9	59138	SunPower Corporation, Systems	IPP	Wildwood Solar I	CA	59253	PV1	14.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	15.0
2016	9	59098	Trishe Wind Ohio LLC	IPP	Trishe Wind Ohio LLC	OH	59296	NWOH2	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2016	9	54842	WM Renewable Energy LLC	IPP	Waste Management Tri-Cities LFGTE	CA	57164	GEN1	1.6	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	1.6
2016	9	54842	WM Renewable Energy LLC	IPP	Waste Management Tri-Cities LFGTE	CA	57164	GEN2	1.6	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	1.6
2016	10	59273	62SK 8me, LLC	IPP	Springbok Solar Farm 1	CA	59532	SB1	100.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	100.0
2016	10	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG2	25.3	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	25.3
2016	10	57369	Apple, Inc	Industrial	Apple Campus 2 Fuel Cell	CA	59557	AC2FC	4.0	Other Waste Biomass	OBG	FC	(T) Regulatory approvals received. Not under construction	4.0
2016	10	57369	Apple, Inc	Industrial	Apple Campus 2 PV	CA	59473	AC2PV	14.4	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	14.4
2016	10	59777	Buckthorn Westex, LLC	IPP	Buckthorn Solar 1	TX	60044	BKTH1	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2016	10	55932	Georgia-Pacific Brewton LLC	Industrial	Georgia-Pacific Brewton Mill	AL	54789	4TG	62.0	Wood/Wood Waste Biomass	BLQ	ST	(U) Under construction, less than or equal to 50 percent complete	75.0
2016	10	59257	Giffen Solar Park, LLC	IPP	Giffen Solar Park	CA	59522	FRGSP	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2016	10	56167	Imperial Valley Solar, LLC	IPP	Imperial Valley Solar, LLC	CA	56917	2	400.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	400.0
2016	10	59285	Innovative Solar 6, LLC	IPP	Innovative Solar 6	NC	59542	IS6	3.6	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	3.6
2016	10	49893	Invenergy Services LLC	IPP	Wake Wind Energy Center	TX	58766	1	129.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	129.5
2016	10	49893	Invenergy Services LLC	IPP	Wake Wind Energy Center	TX	58766	2	109.2	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	109.2
2016	10	49893	Invenergy Services LLC	IPP	Wake Wind Energy Center	TX	58766	3	61.1	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	61.1
2016	10	59898	Kawailoa Solar, LLC	IPP	Kawailoa Solar	HI	60125	KAWS	49.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	49.0
2016	10	59022	Leonardo Wind 1 LLC	IPP	Leonardo Wind 1 LLC	IA	59228	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	58849	Mariah North East LLC	IPP	Mariah North	TX	59005	MAR1	230.4	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	230.4
2016	10	11664	Mark Technologies Corp	IPP	Alta Mesa Project Phase IV	CA	55352	GEN1	40.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.0
2016	10	59026	Michelangelo Wind 1 LLC	IPP	Michelangelo Wind 1 LLC	IA	59231	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	58887	Michelangelo Wind 3 LLC	IPP	Michelangelo Wind 3 LLC	IA	59053	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	59027	Michelangelo Wind 4 LLC	IPP	Michelangelo Wind 4 LLC	IA	59232	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	59634	North Star Solar PV LLC	IPP	North Star Solar Project	MN	59852	NSSP1	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2016	10	59024	Optimum Wind 4 LLC	IPP	Optimum Wind 4 LLC	IA	59226	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	59017	Optimum Wind 5 LLC	IPP	Optimum Wind 5 LLC	IA	59223	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	59018	Optimum Wind 6 LLC	IPP	Optimum Wind 6 LLC	IA	59224	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	59019	Optimum Wind 7 LLC	IPP	Optimum Wind 7 LLC	IA	59225	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2016	10	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2016	10	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2016	10	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2016	10	58653	Oxbow Creek Energy LLC	IPP	Oxbow Creek	PA	58714	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2016	10	58838	Parrey, LLC	IPP	Henrietta Solar Project	CA	58975	PV1	102.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	102.0
2016	10	59771	Pecan Solar LLC	IPP	Pecan Solar	NC	60030	PECAN	74.9	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	74.9
2016	10	17650	Southern Power Co	IPP	Optimum Wind 3 LLC	IA	59227	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	59098	Trishe Wind Ohio LLC	IPP	Trishe Wind Ohio LLC	OH	59296	NWOH1	100.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	100.0

Table 6.5. Planned U.S. Electric Generating Unit Additions

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2016	10	59021	Venus Wind 3 LLC	IPP	Venus Wind 3 LLC	IA	59230	WT1	3.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	3.0
2016	10	54842	WM Renewable Energy LLC	IPP	Waste Mangement Redwood LFGTE	CA	59299	RED1	2.0	Landfill Gas	LFG	IC	(L) Regulatory approvals pending. Not under construction	2.0
2016	10	54842	WM Renewable Energy LLC	IPP	Waste Mangement Redwood LFGTE	CA	59299	RED2	2.0	Landfill Gas	LFG	IC	(L) Regulatory approvals pending. Not under construction	2.0
2016	10	59764	Waipio PV, LLC	IPP	Waipio Solar	HI	60024	WPO	47.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	47.0
2016	11	59758	American Falls Solar II, LLC	IPP	American Falls Solar II	ID	60012	IPAF2	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	11	59757	American Falls Solar LLC	IPP	American Falls Solar	ID	60011	IPAF	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	11	40577	American Mun Power-Ohio, Inc	Electric Utility	Smithland Hydroelectric Plant	KY	57400	SG3	25.3	Conventional Hydroelectric	WAT	HY	(V) Under construction, more than 50 percent complete	25.3
2016	11	59843	Blythe Solar II, LLC	IPP	Blythe Solar II, LLC	CA	60092	BLCK7	25.9	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	25.9
2016	11	8723	City of Holland	Electric Utility	Holland Energy Park	MI	59093	10	43.1	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	53.1
2016	11	8723	City of Holland	Electric Utility	Holland Energy Park	MI	59093	11	43.1	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	53.1
2016	11	8723	City of Holland	Electric Utility	Holland Energy Park	MI	59093	12	40.9	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	43.2
2016	11	59595	Copper Mountain Solar 4, LLC	IPP	Copper Mountain Solar 4, LLC	NV	59814	PV01	46.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	46.0
2016	11	59595	Copper Mountain Solar 4, LLC	IPP	Copper Mountain Solar 4, LLC	NV	59814	PV02	46.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	46.0
2016	11	57406	Deepwater Wind Block Island LLC	IPP	Block Island Wind Farm	RI	58035	BIWF	29.3	Offshore Wind Turbine	WND	WS	(U) Under construction, less than or equal to 50 percent complete	30.0
2016	11	6452	Florida Power & Light Co	Electric Utility	Babcock Solar Energy Center	FL	59993	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2016	11	6452	Florida Power & Light Co	Electric Utility	Citrus Solar Energy Center	FL	60061	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2016	11	59802	Live Oak Solar, LLC	IPP	Live Oak Solar, LLC	GA	60063	LVEOK	51.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	51.0
2016	11	58849	Mariah North East LLC	IPP	Mariah East	TX	59006	MARN	139.2	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	139.2
2016	11	58606	Mauka FIT One LLC	IPP	Mauka FIT One	HI	58662	3501	3.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.5
2016	11	59755	Murphy Flat Power, LLC	IPP	Murphy Flat Solar	ID	60009	IPMF	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	11	59756	Orchard Ranch Solar, LLC	IPP	Orchard Ranch Solar	ID	60010	IPOR	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	11	59790	River Bend Solar, LLC	IPP	River Bend Solar, LLC	AL	60058	RVRBN	75.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	75.0
2016	11	59110	SUNE BEACON SITE 5, LLC	IPP	Beacon Solar Plant Site 5	CA	59308	BEAC5	40.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	40.0
2016	11	59839	Sunflower Wind Project	IPP	Sunflower Wind Project	ND	60088	SNFLR	104.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	104.0
2016	11	59056	Tri Global Energy, LLC	IPP	Hale Community Wind Farm	TX	59247	HALE1	478.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	478.0
2016	11	59831	White Oak Solar, LLC	IPP	White Oak Solar, LLC	GA	60082	WHTOK	76.5	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	76.5
2016	12	59272	41MB Bme, LLC	IPP	Borden Solar Farm	CA	59531	BRDN	50.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	50.0
2016	12	58603	Aloha Solar Energy Fund I LLC	IPP	Aloha Solar Energy Fund 1 PK1	HI	58659	PK-1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	59482	Ameresco Tempe	IPP	St. Paul Intl Airport Red & Blue Parking	MN	59709	PV1	2.3	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	2.3
2016	12	58794	American Wind Energy Management Corp.	IPP	Sangamon Wind One LLC	IL	58925	SAN1	30.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	30.0
2016	12	58794	American Wind Energy Management Corp.	IPP	Sangamon Wind Two LLC	IL	58926	SAN2	100.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	100.0
2016	12	58794	American Wind Energy Management Corp.	IPP	Sugar Creek Wind One LLC	IL	58924	SUG1	175.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	175.0
2016	12	59725	Ariel Solar, LLC	IPP	Bloomsbury Solar, LLC	NC	59970	BLOOM	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2016	12	57003	Arlington Valley Solar Energy LLC	IPP	Arlington Valley Solar Energy I	AZ	57679	AVSE1	125.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	127.0
2016	12	59474	BQ Energy LLC	IPP	Kings Park Solar I	NY	59880	KIPS1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2016	12	59474	BQ Energy LLC	IPP	Kings Park Solar II	NY	59881	KIPS2	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2016	12	59193	Basswood Energy, LLC	IPP	Basswood Energy, LLC	PA	59420	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2016	12	59193	Basswood Energy, LLC	IPP	Basswood Energy, LLC	PA	59420	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2016	12	59193	Basswood Energy, LLC	IPP	Basswood Energy, LLC	PA	59420	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2016	12	59193	Basswood Energy, LLC	IPP	Basswood Energy, LLC	PA	59420	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2016	12	59193	Basswood Energy, LLC	IPP	Basswood Energy, LLC	PA	59420	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2016	12	59594	Black Oak Wind Farm LLC	IPP	Black Oak Wind Farm	NY	59813	NA	16.1	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	16.1
2016	12	58625	Black Oak Wind, LLC	IPP	Black Oak Wind Farm	MN	58692	1	78.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	78.0
2016	12	59365	Capital Power Corporation	IPP	CP Bloom Wind LLC	KS	59888	GEN	180.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	180.0
2016	12	58998	Chapman Ranch Wind LLC	IPP	Chapman Ranch Wind I	TX	59193	CHA1	236.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	236.0
2016	12	58391	Chilocco Wind Farm LLC	IPP	Chilocco Wind Farm	OK	58406	1	76.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	76.5
2016	12	58391	Chilocco Wind Farm LLC	IPP	Chilocco Wind Farm	OK	58406	2	76.5	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	76.5
2016	12	4180	Connecticut Mun Elec Engy Coop	Electric Utility	Subase Microgrid Project	CT	59701	SMP1	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	12	4180	Connecticut Mun Elec Engy Coop	Electric Utility	Subase Microgrid Project	CT	59701	SMP2	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	12	4180	Connecticut Mun Elec Engy Coop	Electric Utility	Subase Microgrid Project	CT	59701	SMP3	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	12	4180	Connecticut Mun Elec Engy Coop	Electric Utility	Subase Microgrid Project	CT	59701	SMP4	2.0	Petroleum Liquids	DFO	IC	(U) Under construction, less than or equal to 50 percent complete	2.0
2016	12	58840	Copenhagen Wind Farm, LLC	IPP	Copenhagen Wind Farm	NY	58979	CPHGN	79.9	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	79.9
2016	12	58695	Coronal Development Services	IPP	Fusion Solar Center LLC	CT	58876	PV	20.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	20.0
2016	12	58695	Coronal Development Services	IPP	Gulf Coast Solar Center I	FL	59689	GCSC1	30.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	30.0
2016	12	58695	Coronal Development Services	IPP	Gulf Coast Solar Center II	FL	59690	GCSC2	40.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	40.0
2016	12	58695	Coronal Development Services	IPP	Gulf Coast Solar Center III	FL	59691	GCSC3	50.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	50.0
2016	12	59319	Cotton Solar, LLC	IPP	Cotton Solar	SC	59572	PV1	16.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	16.0
2016	12	59464	Current Energy Group	IPP	Hickory	NC	59829	5515	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	12	5109	DTE Electric Company	Electric Utility	Echo Wind Park	MI	58121	GEN3	50.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	50.0
2016	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5STA	40.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	65.0
2016	12	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5STB	40.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	65.0
2016	12	56215	E ON Climate Renewables N America LLC	IPP	Colbecs Corner, LLC	TX	59068	GVII	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2016	12	56215	E ON Climate Renewables N America LLC	IPP	Grandview Wind Farm III LLC	TX	59067	GVIII	188.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	188.0
2016	12	56215	E ON Climate Renewables N America LLC	IPP	Maple Valley Wind Farm II	TX	59066	MVII	230.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	230.0
2016	12	56215	E ON Climate Renewables N America LLC	IPP	Stella Wind Farm	TX	59063	WT1	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2016	12	56215	E ON Climate Renewables N America LLC	IPP	Stella Wind Farm II	TX	59064	WT1	200.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	200.0
2016	12	56215	E ON Climate Renewables N America LLC	IPP	Twin Forks Wind Farm LLC	IL	59061	WT1	351.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	351.0
2016	12	56215	E ON Climate Renewables N America LLC	IPP	Vici Wind Farm	OK	59062	VICI	104.4	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	104.4
2016	12	58970	Ecoplexus, Inc	IPP	American Legion PV 1	NC	59516	AMLEG	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	58970	Ecoplexus, Inc	IPP	Baker PV 1	NC	59517	BAKE1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	58970	Ecoplexus, Inc	IPP	Benthall Bridge PV 1	NC	59515	BENT1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2016	12	58970	Ecoplexus, Inc	IPP	Boykin PV1	NC	59996	BOYK1	17.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	17.0
2016	12	58970	Ecoplexus, Inc	IPP	E Nash PV1	NC	60002	NASH1	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2016	12	58970	Ecoplexus, Inc	IPP	Flat Meeks PV 1	NC	59514	FLAT1	3.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	3.4
2016	12	58970	Ecoplexus, Inc	IPP	High Shoals PV1	NC	59997	HISHO	16.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	16.0
2016	12	58970	Ecoplexus, Inc	IPP	Round Hill PV1	NC	59998	RNDHL	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2016	12	58970	Ecoplexus, Inc	IPP	Willoughby PV1	NC	60003	WILL1	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2016	12	59380	Enel Green Power NA, Inc.	IPP	Apple Blossom Wind Farm	MI	58690	APLB1	100.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	100.0
2016	12	59380	Enel Green Power NA, Inc.	IPP	Courtenay Wind Farm	ND	58658	1	200.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	200.0
2016	12	59380	Enel Green Power NA, Inc.	IPP	Lundahl Wind Project, LLC	ND	59684	LWP01	150.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	150.0
2016	12	59380	Enel Green Power NA, Inc.	IPP	Mustang Run Wind Project LLC	OK	59000	MRWP	136.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	136.0
2016	12	59380	Enel Green Power NA, Inc.	IPP	South Fork Wind Farm	MN	58691	STFK1	13.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	13.0
2016	12	58672	Everpower Wind Holdings Inc	IPP	Allegany Wind Farm	NY	58779	1	72.5	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	72.5
2016	12	58672	Everpower Wind Holdings Inc	IPP	Cassadaqa Wind Farm	NY	58777	1	125.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	125.0
2016	12	58672	Everpower Wind Holdings Inc	IPP	Coyote Crest Wind Farm	WA	58778	1	126.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	126.0
2016	12	58672	Everpower Wind Holdings Inc	IPP	Horse Thief Wind Project, LLC	MT	59758	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2016	12	58672	Everpower Wind Holdings Inc	IPP	Mud Springs Wind Project, LLC	MT	59756	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2016	12	58672	Everpower Wind Holdings Inc	IPP	Pryor Caves Wind Project, LLC	MT	59757	1	80.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	80.0
2016	12	58672	Everpower Wind Holdings Inc	IPP	Scioto Ridge Wind Farm	OH	58780	1	300.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	300.0
2016	12	56615	First Solar Project Development	IPP	Aiya Solar Project	NV	59869	GEN01	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2016	12	56615	First Solar Project Development	IPP	CA Flats Solar 130, LLC	CA	60033	GEN01	130.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	130.0
2016	12	56615	First Solar Project Development	IPP	North Rosamond Solar LLC	CA	59879	GEN01	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2016	12	56615	First Solar Project Development	IPP	Playa Solar	NV	59827	GEN01	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	200.0
2016	12	56615	First Solar Project Development	IPP	Sunshine Valley Solar	NV	59826	GEN01	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2016	12	56615	First Solar Project Development	IPP	Windhub Solar A LLC	CA	59878	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	56615	First Solar Project Development	IPP	Windhub Solar B, LLC	CA	59969	GEN01	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	59155	First Wind O&M, LLC	IPP	Bingham Wind	ME	57531	1	186.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	186.0
2016	12	59155	First Wind O&M, LLC	IPP	Hancock Wind Plant	ME	58686	HANC1	51.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	51.0
2016	12	59155	First Wind O&M, LLC	IPP	Milford Wind Corridor Phase III	UT	57546	1	100.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	100.0
2016	12	59155	First Wind O&M, LLC	IPP	Mililani South PV	HI	58281	1	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2016	12	6452	Florida Power & Light Co	Electric Utility	Manatee Solar Energy Center	FL	60014	1	74.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	74.5
2016	12	58880	Gallegos Wind Farm LLC	IPP	Gallegos Wind Farm, Phase 1	NM	59047	GEN 1	180.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	180.0
2016	12	7140	Georgia Power Co	Electric Utility	Fort Gordon Solar Facility	GA	59863	1	30.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	30.0
2016	12	7140	Georgia Power Co	Electric Utility	Fort Stewart Solar Facility	GA	59865	1	30.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	30.0
2016	12	7140	Georgia Power Co	Electric Utility	King's Bay Solar Facility	GA	59864	1	30.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	30.0
2016	12	7140	Georgia Power Co	Electric Utility	Marine Corps Logistics Base Solar Facility	GA	59876	1	46.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	46.0
2016	12	58523	Grande Prairie Wind, LLC	IPP	Grande Prairie Wind Farm	NE	58695	1	400.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	400.0
2016	12	59633	Great Bay Solar I LLC	IPP	Great Bay Solar 1	MD	59851	GBS01	57.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	150.0
2016	12	56946	Hidalgo Wind Farm LLC	IPP	Hidalgo Wind Farm LLC	TX	57617	GEN1	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2016	12	57278	Hidden Hills Solar II LLC	IPP	Hidden Hills Solar Plant 2	CA	57906	1	250.0	Solar Thermal without Energy Storage	SUN	ST	(L) Regulatory approvals pending. Not under construction	250.0
2016	12	59246	Highwater Solar I	IPP	Highwater Solar I	NC	59487	HIGHW	4.9	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	4.9
2016	12	9267	Hoosier Energy R E C, Inc	Electric Utility	Decatur Co. Solar RES (IN)	IN	59988	PV1	1.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.1

Table 6.5. Planned U.S. Electric Generating Unit Additions

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2016	12	9267	Hoosier Energy R E C, Inc	Electric Utility	Ellettsville Solar RES	IN	59985	PV1	1.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.1
2016	12	9267	Hoosier Energy R E C, Inc	Electric Utility	Henryville Solar RES	IN	59986	PV1	1.1	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	1.1
2016	12	9267	Hoosier Energy R E C, Inc	Electric Utility	Jackson Co. Solar RES	IN	59989	PV1	1.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.1
2016	12	9267	Hoosier Energy R E C, Inc	Electric Utility	Johnson Co. Solar RES	IN	59990	PV1	1.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.1
2016	12	9267	Hoosier Energy R E C, Inc	Electric Utility	Spring Mill Solar RES	IN	59987	PV1	1.1	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.1
2016	12	15399	Iberdrola Renewables Inc	IPP	El Cabo Wind	NM	58098	1	298.0	Onshore Wind Turbine	WND	WT	(V) Under construction, more than 50 percent complete	298.0
2016	12	15399	Iberdrola Renewables Inc	IPP	Tule Wind LLC	CA	57913	1	143.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	143.0
2016	12	9324	Indiana Michigan Power Co	Electric Utility	OlivePV	IN	59854	OLPV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2016	12	59628	Infigen Energy US Development LLC	IPP	Caprock Solar 1 LLC	NM	59251	PV1	24.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	25.0
2016	12	59628	Infigen Energy US Development LLC	IPP	Caprock Solar 2 LLC	NM	59846	PV1	30.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	30.0
2016	12	59678	KDC Solar PR1, LLC	IPP	KDC Solar PR1, LLC	NJ	59910	SF	22.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	22.0
2016	12	56911	Kalaeloa Solar One LLC	IPP	Kalaeloa Solar One	HI	57569	KS1-A	3.0	Solar Thermal with Energy Storage	SUN	CP	(L) Regulatory approvals pending. Not under construction	3.0
2016	12	56911	Kalaeloa Solar One LLC	IPP	Kalaeloa Solar One	HI	57569	KS1-B	3.0	Solar Thermal with Energy Storage	SUN	CP	(L) Regulatory approvals pending. Not under construction	3.0
2016	12	58688	Kelly Energy LLC	IPP	Kelly	PA	58817	GEN1	3.0	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	3.3
2016	12	58688	Kelly Energy LLC	IPP	Kelly	PA	58817	GEN2	3.0	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	3.3
2016	12	10171	Kentucky Utilities Co	Electric Utility	E W Brown	KY	1355	SOLAR	10.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	10.0
2016	12	55910	Lanai Sustainability Research LLC	IPP	Miliilani South Solar Farm	HI	57242	1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2016	12	49736	Loring Holdings, LLC	Electric CHP	Loring Power Plant	ME	56105	GTG1	37.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	50.0
2016	12	49736	Loring Holdings, LLC	Electric CHP	Loring Power Plant	ME	56105	STG1	18.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	30.0
2016	12	11204	Los Alamos County	Electric Utility	Los Alamos PV Site	NM	58256	4	1.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	1.0
2016	12	55983	Luminant Generation Company LLC	IPP	Horseshoe Bend	TX	59806	SOLAR	140.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	140.0
2016	12	58850	Mariah South LLC	IPP	Mariah South	TX	59007	MAR S	99.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
2016	12	59342	Maricopa West Solar PV 2, LLC	IPP	Maricopa West Solar 2	CA	59608	MWS2	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	59469	Mountain Home Solar, LLC	IPP	Mountain Home Solar	ID	59695	MHPV1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	58371	NextEra Blythe Solar Energy Center, LLC	IPP	Blythe Solar Power Project	CA	57273	A	110.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	110.0
2016	12	58371	NextEra Blythe Solar Energy Center, LLC	IPP	Blythe Solar Power Project	CA	57273	B	125.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	125.0
2016	12	56622	NextEra Energy Resources	IPP	Marshall Solar Energy Project	MN	59875	PV1	62.3	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	62.3
2016	12	56935	Number Nine Wind Farm LLC	IPP	Number Nine Wind Farm	ME	57612	GEN1	250.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	250.0
2016	12	58477	O2energies, Inc.	IPP	Five Forks Solar	NC	59951	5FRK	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2016	12	56676	Panoche Valley Solar LLC	IPP	Panoche Valley Solar Farm	CA	57340	1	247.7	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	247.7
2016	12	56545	Pattern Operators LP	IPP	Ripley Westfield Wind LLC	NY	57193	WTG	75.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	75.0
2016	12	56545	Pattern Operators LP	IPP	Texas Gulf Wind 2	TX	56662	1	187.2	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	187.2
2016	12	59470	Pocatello Solar 1, LLC	IPP	Pocatello Solar	ID	59696	PAPV1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	58109	President & Trustees of Williams College	Commercial	Williams College - Campus CHP	MA	58160	GEN3	1.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	1.2
2016	12	59010	Rhubarb One LLC	IPP	Rhubarb One SC	SC	59596	PV1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	58691	Shippenville Energy LLC	IPP	Shippenville	PA	58820	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2016	12	58691	Shippenville Energy LLC	IPP	Shippenville	PA	58820	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2016	12	58691	Shippenville Energy LLC	IPP	Shippenville	PA	58820	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2016	12	58691	Shippenville Energy LLC	IPP	Shippenville	PA	58820	GEN4	4.4	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2016	12	58691	Shippenville Energy LLC	IPP	Shippenville	PA	58820	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(P) Planned for installation, but regulatory approvals not initiated	4.4
2016	12	59779	Shoreham Solar Commons	IPP	Shoreham Solar Commons	NY	60045	GEN1	24.9	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	24.9
2016	12	59770	Shorthorn Holdings, LLC	IPP	Shorthorn Holdings	SC	60028	PV1	15.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	15.4
2016	12	58579	Silverado Power	IPP	Western Antelope Dry Ranch	CA	58627	WADR	10.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	10.0
2016	12	57331	Soitec Solar Development LLC	IPP	Rugged Solar LLC	CA	57960	1	80.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	80.0
2016	12	59080	Soleil Energy Solutions, LLC	IPP	Westside Solar Farm	NC	59258	WEST1	4.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.0
2016	12	59696	Soluga Farms IV	IPP	Soluga Farms IV	NC	59934	SFIV	4.9	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	4.9
2016	12	58860	Southbridge Recycling and Disposal Park, Inc	IPP	Southbridge Landfill Gas-to-Energy	MA	59011	CAT2	1.5	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	1.6
2016	12	17650	Southern Power Co	IPP	Butler Solar Project 103	GA	59896	1	103.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	103.0
2016	12	17650	Southern Power Co	IPP	Taylor County Solar	GA	59897	1	148.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	148.0
2016	12	59138	SunPower Corporation, Systems	IPP	Aragonne Solar LLC	NM	59252	PV1	38.4	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	40.0
2016	12	59138	SunPower Corporation, Systems	IPP	Rio Bravo Solar II LLC	CA	59250	PV1	19.5	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	58734	Sunfish Farm LLC	IPP	Sunfish Farm	NC	58864	1	5.0	Solar Photovoltaic	SUN	PV	(U) Under construction, less than or equal to 50 percent complete	5.0
2016	12	58661	Sustainable Power Group, LLC	IPP	Central Antelope Dry Ranch C	CA	59963	CADRC	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	58661	Sustainable Power Group, LLC	IPP	Eden Solar LLC	NC	59778	EDEN5	47.7	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	47.7
2016	12	58661	Sustainable Power Group, LLC	IPP	North Lancaster Ranch	CA	59962	NLR	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	59317	Toprak LLC	IPP	Toprak	NC	59570	PV1	20.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	20.0
2016	12	54906	Tradewind Energy, Inc.	IPP	Drift Sand Wind Project LLC	OK	59065	WT1	109.8	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	109.8
2016	12	59056	Tri Global Energy, LLC	IPP	Changing Winds	TX	59243	CHAN1	288.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	288.0
2016	12	59056	Tri Global Energy, LLC	IPP	Fiber Winds	TX	59244	FIBE1	80.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	80.0
2016	12	59056	Tri Global Energy, LLC	IPP	Fluvanna	TX	59245	FLUV1	240.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	240.0
2016	12	59056	Tri Global Energy, LLC	IPP	Goodnight	TX	59246	GOOD1	240.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	240.0
2016	12	59056	Tri Global Energy, LLC	IPP	Hale Community Wind Farm	TX	59247	HALE2	240.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	240.0
2016	12	58796	Trishe Wind Colorado	IPP	Trishe Wind Colorado	CO	58928	1	30.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	30.0
2016	12	56633	Trishe Wind Minnesota	IPP	Trishe Wind Minnesota	MN	57255	1	40.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	40.0
2016	12	19316	Two Elk Generation Partners LP	IPP	Two Elk Generating Station	WY	55360	GEN1	275.0	Conventional Steam Coal	WC	ST	(U) Under construction, less than or equal to 50 percent complete	320.0
2016	12	58153	US Magnesium	Industrial	US Magnesium	UT	58191	GT4	24.0	Natural Gas Fired Combustion Turbine	NG	GT	(V) Under construction, more than 50 percent complete	30.0
2016	12	57341	Veolia Energy	Electric CHP	Univ Minnesota CHP Plant	MN	59197	CTG-1	17.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	21.0
2016	12	58624	Walnut Ridge Wind, LLC	IPP	Walnut Ridge Wind Farm	IL	58694	1	210.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	210.0
2016	12	58761	White Camp Solar LLC	IPP	White Camp Solar	TX	58888	WCAMP	100.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	100.0
2016	12	59803	White Pine Solar, LLC	IPP	White Pine Solar, LLC	GA	60064	WHTPN	101.2	Solar Photovoltaic	SUN	PV	(V) Under construction, more than 50 percent complete	101.2
2016	12	59316	Whitetail Solar LLC	IPP	Whitetail Solar	SC	59569	PV1	10.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	10.0
2016	12	59260	Wright Solar Park, LLC	IPP	Wright Solar Park	CA	59525	FRWSP	200.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	200.0
2017	1	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	1	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	1	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	1	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	1	58686	Alpaca Energy LLC	IPP	Alpaca	PA	58813	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	1	59308	Bearford Farm, LLC	IPP	Bearford Farm Solar Project	NC	59567	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	1	2087	Bowie Power Station LLC	Electric CHP	Bowie Power Station LLC	AZ	55780	CT1	172.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	172.0
2017	1	2087	Bowie Power Station LLC	Electric CHP	Bowie Power Station LLC	AZ	55780	CT2	172.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	172.0
2017	1	3892	City of Coffeyville - (KS)	Electric Utility	CML&P Generating Facility No. 2	KS	59726	10	18.7	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.7
2017	1	3892	City of Coffeyville - (KS)	Electric Utility	CML&P Generating Facility No. 2	KS	59726	8	18.7	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.7
2017	1	3892	City of Coffeyville - (KS)	Electric Utility	CML&P Generating Facility No. 2	KS	59726	9	18.7	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	18.7
2017	1	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT1	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
2017	1	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT2	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
2017	1	39347	East Texas Electric Coop, Inc	Electric Utility	RC Thomas Hydroelectric Project	TX	58645	RCT3	8.7	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	8.9
2017	1	59306	Keen Farm, LLC	IPP	Keen Farm	NC	59565	PV1	5.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	5.0
2017	1	59320	Manway Solar, LLC	IPP	Manway Solar Farm	NC	59575	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	1	58689	Milan Energy LLC	IPP	Milan	PA	58818	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	1	58689	Milan Energy LLC	IPP	Milan	PA	58818	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	1	58689	Milan Energy LLC	IPP	Milan	PA	58818	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	1	58689	Milan Energy LLC	IPP	Milan	PA	58818	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	1	58689	Milan Energy LLC	IPP	Milan	PA	58818	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	1	59323	Monroe Moore Farm, LLC	IPP	Monroe Moore Farm	NC	59578	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	1	59333	Pit 64 Farm, LLC	IPP	Pit 64	NC	59588	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	1	59335	Sandy Ridge Solar Farm, LLC	IPP	Sandy Ridge Solar Farm	NC	59590	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	1	59337	Sedberry Farm, LLC	IPP	Sedberry Farm	NC	59592	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	1	59338	Spring Valley Farm 2, LLC	IPP	Spring Valley Farm 2, LLC	NC	59593	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	1	59339	Spring Valley Farm, LLC	IPP	Spring Valley Farm	NC	59594	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	1	18454	Tampa Electric Co	Electric Utility	Polk	FL	7242	2CC	459.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	463.0
2017	1	59328	Tart Farm, LLC	IPP	Tart Farm	NC	59583	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	1	20159	Washington Parish Engy Ctr LLC	IPP	Washington Parish Energy Center	LA	55486	CTG1	172.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	200.0
2017	1	20159	Washington Parish Engy Ctr LLC	IPP	Washington Parish Energy Center	LA	55486	CTG2	172.0	Natural Gas Fired Combined Cycle	NG	CT	(V) Under construction, more than 50 percent complete	200.0
2017	1	20159	Washington Parish Engy Ctr LLC	IPP	Washington Parish Energy Center	LA	55486	ST1	215.0	Natural Gas Fired Combined Cycle	NG	CA	(V) Under construction, more than 50 percent complete	255.0
2017	1	59329	Wellons Farm, LLC	IPP	Wellons Farm	NC	59584	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	1	59331	Woodland Church Farm, LLC	IPP	Woodland Church Farm	NC	59586	PV1	5.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	5.0
2017	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	GTG1	205.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	215.0
2017	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	GTG2	205.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	215.0
2017	2	56031	CPV Maryland LLC	IPP	CPV St Charles Energy Center	MD	56846	STGEN	316.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	316.0
2017	3	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4
2017	3	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4
2017	3	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4

Table 6.5. Planned U.S. Electric Generating Unit Additions

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2017	3	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4
2017	3	58687	Bayles Energy LLC	IPP	Bayles	PA	58816	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4
2017	3	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5501	3.0	Hydrokinetic	WAT	HA	(L) Regulatory approvals pending. Not under construction	3.0
2017	3	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5502	1.3	Hydrokinetic	WAT	HA	(L) Regulatory approvals pending. Not under construction	1.3
2017	3	58889	Dominion Cove Point LNG, LP	Commercial	Cove Point LNG Terminal	MD	59073	5511	1.7	Hydrokinetic	WAT	HA	(L) Regulatory approvals pending. Not under construction	1.7
2017	3	58684	Hop Bottom Energy LLC	IPP	Hop Bottom	PA	58800	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	3	58684	Hop Bottom Energy LLC	IPP	Hop Bottom	PA	58800	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	3	58684	Hop Bottom Energy LLC	IPP	Hop Bottom	PA	58800	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	3	58684	Hop Bottom Energy LLC	IPP	Hop Bottom	PA	58800	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	3	58684	Hop Bottom Energy LLC	IPP	Hop Bottom	PA	58800	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	3	49805	Kennecott Utah Copper	Industrial	Kennecott Power Plant	UT	56163	5CTG	176.9	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	207.9
2017	3	56789	TBE Montgomery LLC	IPP	TBE-Montgomery LLC	NY	57472	CTG	11.6	Other Waste Biomass	OBG	CT	(U) Under construction, less than or equal to 50 percent complete	12.0
2017	3	56789	TBE Montgomery LLC	IPP	TBE-Montgomery LLC	NY	57472	STG	7.4	Other Waste Biomass	OBG	CA	(U) Under construction, less than or equal to 50 percent complete	9.0
2017	4	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4
2017	4	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4
2017	4	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4
2017	4	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4
2017	4	59192	Amity Energy, LLC	IPP	Amity Energy LLC	PA	59418	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(L) Regulatory approvals pending. Not under construction	4.4
2017	4	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	GEN1	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	4	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	GEN2	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	4	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	GEN3	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	4	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	GEN4	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	4	58692	Florey Knob LLC	IPP	Florey Knobb	PA	58821	GEN5	4.2	Natural Gas Internal Combustion Engine	NG	IC	(T) Regulatory approvals received. Not under construction	4.4
2017	4	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	2	156.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	170.0
2017	4	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	3	156.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	170.0
2017	4	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	4	390.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	390.0
2017	4	7490	Grand River Dam Authority	Electric Utility	GREC	OK	165	3CT	324.6	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	365.5
2017	4	7490	Grand River Dam Authority	Electric Utility	GREC	OK	165	3ST	191.8	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	204.0
2017	4	58848	Green Energy Partners LLC	IPP	Stonewall	VA	59004	GEN1	230.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	232.0
2017	4	58848	Green Energy Partners LLC	IPP	Stonewall	VA	59004	GEN3	314.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	338.0
2017	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	GT1	207.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	207.0
2017	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	GT2	207.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	207.0
2017	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	STG1	230.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	230.0
2017	4	59435	Innovative Solar 37, LLC	IPP	Innovative Solar 37	NC	59665	IS037	78.7	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	78.7
2017	4	9417	Interstate Power and Light Co	Electric Utility	Marshalltown Generating Station	IA	58236	CTG1	209.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	222.7
2017	4	9417	Interstate Power and Light Co	Electric Utility	Marshalltown Generating Station	IA	58236	CTG2	209.0	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	222.7
2017	4	9417	Interstate Power and Light Co	Electric Utility	Marshalltown Generating Station	IA	58236	STG1	238.8	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	260.5
2017	5	59111	Crawford Renewable Energy, LLC	IPP	Crawford Renewable Energy - Meadville Power Station	PA	59307	MPS	93.5	All Other	TDF	ST	(U) Under construction, less than or equal to 50 percent complete	99.5
2017	5	5701	El Paso Electric Co	Electric Utility	Montana Power Station	TX	58562	GT-4	100.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	131.8
2017	5	58597	Enivromission, Inc	IPP	La Paz Solar Tower	AZ	58652	1	200.0	Solar Thermal without Energy Storage	SUN	OT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2017	5	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	CGT4	318.5	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	360.0
2017	5	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	CGT5	318.5	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	360.0
2017	5	6035	Exelon Power	IPP	Wolf Hollow II	TX	59812	STG6	485.2	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	501.3
2017	5	58848	Green Energy Partners LLC	IPP	Stonewall	VA	59004	GEN2	230.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	232.0
2017	5	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT1	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2017	5	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT2	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2017	5	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT3	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2017	5	58783	Marseilles Land and Water Company	IPP	Marseilles Lock and Dam Hydro	IL	58903	UNIT4	2.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	2.6
2017	5	59101	NTE Texas, LLC	IPP	Pecan Creek Energy Center	TX	59298	PCEC1	230.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	285.0
2017	5	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	CT1	310.3	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	310.3
2017	5	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	CT2	310.3	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	310.3
2017	5	40229	Old Dominion Electric Coop	Electric Utility	Wildcat Point Generation Facility	MD	59220	ST1	493.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	493.0
2017	5	59336	Schell Solar Farm, LLC	IPP	Schell Solar Farm	NC	59591	PV1	5.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	5.0
2017	6	56771	Black Hills Service Company LLC	IPP	Pueblo Airport Generating Station	CO	56998	CT08	37.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	40.0
2017	6	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	CTG5	230.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	230.0
2017	6	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	CTG6	230.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	230.0
2017	6	56608	Calpine Mid-Merit LLC	IPP	York Energy Center	PA	55524	STG2	414.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	414.0
2017	6	58959	Freeport LNG Development L.P	Industrial	Freeport LP Pretreatment Facility	TX	59145	65GTG	77.5	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	97.0
2017	6	9267	Hoosier Energy R E C, Inc	Electric Utility	Cabin Creek Renewable Energy Station	IN	59791	1	1.9	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	2.0
2017	6	9267	Hoosier Energy R E C, Inc	Electric Utility	Cabin Creek Renewable Energy Station	IN	59791	2	1.9	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	2.0
2017	6	57501	NAES Salem Harbor	IPP	Salem Harbor	MA	1626	5	340.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	340.0
2017	6	57501	NAES Salem Harbor	IPP	Salem Harbor	MA	1626	6	340.0	Natural Gas Fired Combined Cycle	NG	CC	(U) Under construction, less than or equal to 50 percent complete	340.0
2017	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-1	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2017	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-2	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2017	6	59357	Navasota Energy Generation Holdings	IPP	Clear Springs Energy Center	TX	59615	CTG-3	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2017	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-1	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2017	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-2	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2017	6	59357	Navasota Energy Generation Holdings	IPP	Union Valley Energy Center	TX	59616	CTG-3	178.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2017	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-1	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2017	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-2	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2017	6	59357	Navasota Energy Generation Holdings	IPP	Van Alstyne Energy Center	TX	59617	CTG-3	177.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	183.0
2017	6	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	CTG11	256.5	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	328.0
2017	6	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	CTG12	256.5	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	328.0
2017	6	59534	Oregon Clean Energy Center	IPP	Oregon Clean Energy Center	OH	59764	STG10	334.6	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	404.0
2017	6	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	4A	122.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	122.0
2017	6	56640	Rice Solar Energy LLC	Commercial	Rice Solar Energy	CA	57276	RSE1	150.0	Solar Thermal with Energy Storage	SUN	CP	(L) Regulatory approvals pending. Not under construction	170.0
2017	6	58960	Timberline Energy LLC	IPP	Front Range Project	CO	59143	FR-2	1.5	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	1.6
2017	7	59362	Jericho Rise Wind Farm LLC	IPP	Jericho Rise Wind Farm LLC	NY	59629	GEN1	77.7	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	77.7
2017	8	56987	RRE Auston Solar LLC	IPP	Pflugerville Solar Farm	TX	57659	PSF	120.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	120.0
2017	9	58901	Hydro Green Energy	IPP	Braddock Lock and Dam	PA	59091	GEN1	5.3	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	5.3
2017	9	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG1	3.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	3.0
2017	9	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG2	3.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	3.0
2017	9	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG3	3.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	3.0
2017	9	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG4	3.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	3.0
2017	9	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG5	3.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	3.0
2017	9	58804	Lake Erie Energy Development Corp	IPP	Icebreaker Offshore Wind Farm	OH	58941	WTG6	3.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	3.0
2017	9	58588	National Solar Power Partners LLC	IPP	Hardee County Solar Farms 1 LLC	FL	58637	HCSF1	20.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	20.0
2017	9	59137	Palmer Renewable Energy	IPP	Palmer Renewable Energy	MA	59336	PRE	42.0	Wood/Wood Waste Biomass	WDS	ST	(T) Regulatory approvals received. Not under construction	42.0
2017	9	19876	Virginia Electric & Power Co	Electric Utility	VA Offshore Wind Project (VOWTAP)	VA	59693	OSW1	12.0	Offshore Wind Turbine	WND	WS	(L) Regulatory approvals pending. Not under construction	12.0
2017	10	58378	Jordan Hydroelectric LTD PTP	IPP	Flannagan Hydroelectric Project	VA	58827	LEFT	0.9	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.9
2017	10	58378	Jordan Hydroelectric LTD PTP	IPP	Flannagan Hydroelectric Project	VA	58827	RGHT	0.9	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	0.9
2017	10	58815	KDC Solar RTC LLC	IPP	Delilah Road Landfill	NJ	58951	DRLS	9.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	9.0
2017	10	59056	Tri Global Energy, LLC	IPP	Easter	TX	59971	ESTR1	200.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	200.0
2017	10	57028	West Butte Wind Power LLC	IPP	West Butte Wind Power Project	OR	57704	WB-1	104.5	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	104.5
2017	11	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT3	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2017	11	58574	Canton Mountain Wind LLC	IPP	Canton Mountain Wind	ME	58620	1	22.8	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	22.8
2017	11	58846	Southeast Renewable Fuels, LLC	Industrial	SRF Sorghum to Ethanol Advanced Biorefinery	FL	58997	G1001	12.0	Other Waste Biomass	OBS	ST	(U) Under construction, less than or equal to 50 percent complete	15.0
2017	12	219	Alaska Power and Telephone Co	Electric Utility	Mahoney Lake Hydroelectric	AK	59027	GEN 1	9.6	Conventional Hydroelectric	WAT	HY	(L) Regulatory approvals pending. Not under construction	9.6
2017	12	219	Alaska Power and Telephone Co	Electric Utility	Reynolds Creek	AK	59037	GEN 1	5.0	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	5.0
2017	12	59714	Antrim Wind Energy LLC	IPP	Antrim Wind	NH	59953	AWND1	28.4	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	28.8
2017	12	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT4	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2017	12	2087	Bowie Power Station LLC	IPP	Bowie Power Station LLC	AZ	55780	CT3	172.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	172.0
2017	12	2087	Bowie Power Station LLC	IPP	Bowie Power Station LLC	AZ	55780	CT4	172.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	172.0
2017	12	2087	Bowie Power Station LLC	Electric CHP	Bowie Power Station LLC	AZ	55780	ST1	181.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	181.0
2017	12	2087	Bowie Power Station LLC	Electric CHP	Bowie Power Station LLC	AZ	55780	ST2	181.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	181.0
2017	12	59365	Capital Power Corporation	IPP	Black Fork Wind Energy Project	OH	59907	GEN	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2017	12	59365	Capital Power Corporation	IPP	EcoPoint Wind LLC	IL	59902	GEN	150.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	150.0
2017	12	59365	Capital Power Corporation	IPP	Hopeful Solar LLC	GA	59892	GEN	29.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	29.0
2017	12	59365	Capital Power Corporation	IPP	Meadowlark Wind	ND	59903	GEN	99.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	99.0
2017	12	59365	Capital Power Corporation	IPP	Poplars Ranch Solar LLC	OR	59890	GEN	16.0	Solar Photovoltaic	SUN	PV	(P) Planned for installation, but regulatory approvals not initiated	16.0
2017	12	59541	Carroll County Energy LLC	Electric CHP	Carroll County Energy	OH	59773	CGT1	197.3	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	235.5

Table 6.5. Planned U.S. Electric Generating Unit Additions

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2017	12	59541	Carroll County Energy LLC	Electric CHP	Carroll County Energy	OH	59773	CGT2	197.3	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	235.5
2017	12	59541	Carroll County Energy LLC	Electric CHP	Carroll County Energy	OH	59773	SGT1	288.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	361.3
2017	12	58672	Everpower Wind Holdings Inc	IPP	Buckeye Wind Farm	OH	58776	1	200.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	200.0
2017	12	59155	First Wind O&M, LLC	IPP	Bowers Wind Project	ME	57088	1	48.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	48.0
2017	12	7189	Gila Bend Power Partners LLC	IPP	Gila Bend Power Generation Station	AZ	55507	1	156.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	170.0
2017	12	15399	Iberdrola Renewables Inc	IPP	Desert Wind	NC	59968	1	208.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	208.0
2017	12	56941	Meadow Lake Wind Farm V LLC	IPP	Meadow Lake Wind Farm V LLC	IN	57628	GEN1	100.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	100.0
2017	12	56949	Paulding Wind Farm LLC	IPP	Paulding Wind Farm LLC	OH	57611	GEN1	49.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	49.0
2017	12	58626	Paynesville Wind, LLC	IPP	Paynesville Wind Farm	MN	58693	1	95.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	95.0
2017	12	56424	Quilt Block Wind Farm LLC	IPP	Quilt Block Wind Farm LLC	WI	57116	GEN 1	98.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	98.0
2017	12	59701	RE Tranquillity 8 LLC	IPP	RE Tranquillity 8	CA	59940	TQ8	200.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	205.3
2017	12	58843	Searchlight Wind Energy LLC	IPP	Searchlight Wind	NV	58988	1	200.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	200.0
2017	12	59056	Tri Global Energy, LLC	IPP	Bearkat	TX	59972	BRKAT	240.0	Onshore Wind Turbine	WND	WT	(U) Under construction, less than or equal to 50 percent complete	240.0
2018	1	56814	Black Creek Renewable Energy LLC	IPP	Sampson County Landfill	NC	57492	GEN8	1.6	Landfill Gas	LFG	IC	(T) Regulatory approvals received. Not under construction	1.6
2018	1	56204	CPV Valley LLC	IPP	CPV Valley Energy Center	NY	56940	CTG2	186.5	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	235.0
2018	1	56204	CPV Valley LLC	IPP	CPV Valley Energy Center	NY	56940	STG	305.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	350.0
2018	1	2719	CalWind Resources Inc	IPP	Tehachapi Wind Resource II	CA	54909	PLAN	15.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	15.5
2018	1	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	CA1	388.9	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	382.5
2018	1	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	GT1	219.7	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	208.3
2018	1	58765	FGE Texas I LLC	IPP	FGE Texas I	TX	58931	GT2	219.7	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	208.3
2018	1	58763	LotusWorks-Summit Ridge I, LLC	IPP	Summit Ridge I Wind Farm	OR	58894	SRWF	151.8	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	151.8
2018	1	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC1	460.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	475.0
2018	1	59123	NTE Carolinas, LLC	IPP	Kings Mountain Energy Center	NC	59325	KMEC2	248.8	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	248.8
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT1	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT2	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT3	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT4	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT5	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT6	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	GT7	57.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	66.0
2018	1	16534	Sacramento Municipal Util Dist	Electric Utility	White Rock/Slab Creek	CA	435	H3	2.6	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	2.6
2018	2	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT5	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2018	2	59686	Coronado Power Ventures LLC	IPP	Pinecrest Energy Center	TX	59923	CTG-1	229.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	232.0
2018	2	59686	Coronado Power Ventures LLC	IPP	Pinecrest Energy Center	TX	59923	CTG-2	229.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	232.0
2018	2	59686	Coronado Power Ventures LLC	IPP	Pinecrest Energy Center	TX	59923	STG	289.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	289.0
2018	2	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	CGT11	286.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	286.0
2018	2	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	CGT12	286.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	286.0
2018	2	59434	Mattawoman Energy, LLC	IPP	Mattawoman Energy Center	MD	59662	STG11	436.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	436.0
2018	3	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT6	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2018	3	59686	Coronado Power Ventures LLC	IPP	La Paloma Energy Center	TX	59924	CTG-1	211.5	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	230.0
2018	3	59686	Coronado Power Ventures LLC	IPP	La Paloma Energy Center	TX	59924	CTG-2	211.5	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	230.0
2018	3	59686	Coronado Power Ventures LLC	IPP	La Paloma Energy Center	TX	59924	STG-1	300.0	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	311.0
2018	3	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	CA1	388.9	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	382.5
2018	3	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	GT1	219.7	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	208.3
2018	3	58766	FGE Texas II LLC	IPP	FGE Texas II	TX	58930	GT2	219.7	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	208.3
2018	3	13781	Northern States Power Co - Minnesota	Electric Utility	Black Dog	MN	1904	6-1	215.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	238.0
2018	4	803	Arizona Public Service Co	Electric Utility	Ocotillo	AZ	116	GT7	104.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	161.9
2018	4	59683	Rockwood Energy Center LLC	IPP	Rockwood Energy Center LLC	TX	59918	ROCKW	1,068.0	Natural Gas Fired Combined Cycle	NG	CC	(T) Regulatory approvals received. Not under construction	1,068.0
2018	4	20421	Western Minnesota Mun Pwr Agny	Electric Utility	Red Rock Hydro Plant	IA	58434	1	27.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	18.2
2018	4	20421	Western Minnesota Mun Pwr Agny	Electric Utility	Red Rock Hydro Plant	IA	58434	2	27.5	Conventional Hydroelectric	WAT	HY	(T) Regulatory approvals received. Not under construction	18.2
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	CTG1	235.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	285.0
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	CTG2	235.0	Natural Gas Fired Combined Cycle	NG	CT	(T) Regulatory approvals received. Not under construction	285.0
2018	5	19002	CPV Towantic, LLC	IPP	CPV Towantic Energy Center	CT	56047	STG	280.5	Natural Gas Fired Combined Cycle	NG	CA	(T) Regulatory approvals received. Not under construction	280.5
2018	5	59283	Gateway Energy Center, LLC	IPP	Gateway Energy Center, LLC	NJ	59538	CT001	442.8	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	440.0
2018	5	59675	Moxie Freedom LLC	IPP	Moxie Freedom Generation Plant	PA	59906	GEN1	490.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	529.0
2018	5	59675	Moxie Freedom LLC	IPP	Moxie Freedom Generation Plant	PA	59906	GEN2	490.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	529.0
2018	5	59490	Neches Station, LLC	IPP	Neches Station, LLC	TX	59716	CTG1	223.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2018	5	59490	Neches Station, LLC	IPP	Neches Station, LLC	TX	59716	CTG2	223.0	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	232.0
2018	6	59687	AltaGas Sonoran Energy Inc	IPP	Sonoran Energy Project	CA	59925	GEN1	510.7	Natural Gas Fired Combined Cycle	NG	CS	(L) Regulatory approvals pending. Not under construction	553.0
2018	6	2338	Calpine Central LP	IPP	Mankato Energy Center	MN	56104	CTG1	200.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	210.0
2018	6	6035	Exelon Power	IPP	Exelon West Medway II LLC	MA	59882	4	97.4	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	100.0
2018	6	6035	Exelon Power	IPP	Exelon West Medway II LLC	MA	59882	5	97.4	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	100.0
2018	6	58409	Future Power PA	IPP	Good Spring NGCC Facility	PA	58409	GT1	232.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	250.0
2018	6	58409	Future Power PA	IPP	Good Spring NGCC Facility	PA	58409	ST1	108.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	108.0
2018	6	59588	Lake Creek 3 Power Company LLC	IPP	Lake Creek	TX	3502	CT1	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2018	6	55983	Luminant Generation Company LLC	IPP	DeCordova Steam Electric Station	TX	8063	CT5	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2018	6	55983	Luminant Generation Company LLC	IPP	DeCordova Steam Electric Station	TX	8063	CT6	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(U) Under construction, less than or equal to 50 percent complete	235.5
2018	6	59487	Moundsville Power, LLC	IPP	Moundsville Power	WV	59720	MPCA1	224.9	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	246.5
2018	6	59487	Moundsville Power, LLC	IPP	Moundsville Power	WV	59720	MPCT1	177.3	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	195.5
2018	6	59487	Moundsville Power, LLC	IPP	Moundsville Power	WV	59720	MPCT2	177.3	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	195.5
2018	6	59124	NTE Ohio LLC	IPP	Middletown Energy Center	OH	59326	MEC1	310.3	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	310.3
2018	6	59124	NTE Ohio LLC	IPP	Middletown Energy Center	OH	59326	MEC2	284.8	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	284.8
2018	6	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	6A	122.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	122.0
2018	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT1	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	106.0
2018	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT2	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	106.0
2018	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT3	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	106.0
2018	6	59489	Perennial-Wind Chaser LLC	IPP	Perennial Wind Chaser Station	OR	59721	GT4	98.7	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	106.0
2018	6	54866	Robinson Power Company LLC	IPP	Robinson Power Company LLC	PA	56453	CTG1	699.2	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	732.6
2018	6	40192	Shady Hills Power Co LLC	IPP	Shady Hills Generating Station	FL	55414	G401	200.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	259.0
2018	6	40192	Shady Hills Power Co LLC	IPP	Shady Hills Generating Station	FL	55414	G501	200.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	259.0
2018	6	57109	St Joseph Energy Center LLC	IPP	St Joseph Energy Center	IN	57794	2	642.0	Natural Gas Fired Combined Cycle	NG	CC	(L) Regulatory approvals pending. Not under construction	670.0
2018	6	56883	Tradinghouse Power Company LLC	IPP	Tradinghouse	TX	3506	CT1	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	235.5
2018	6	56883	Tradinghouse Power Company LLC	IPP	Tradinghouse	TX	3506	CT2	207.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	235.5
2018	6	56927	Wallingford Energy LLC	IPP	Wallingford Energy	CT	55517	CTG6	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2018	6	56927	Wallingford Energy LLC	IPP	Wallingford Energy	CT	55517	CTG7	45.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2018	7	56615	First Solar Project Development	IPP	CA Flats Solar 150, LLC	CA	60034	GEN01	150.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	150.0
2018	7	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG1	41.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	41.0
2018	7	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG2	41.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	41.0
2018	7	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	GTG3	41.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	41.0
2018	7	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG1	64.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	64.0
2018	7	58798	Shell Chemical Appalachia LLC	Industrial	Shell Chemical Appalachia LLC	PA	58933	STG2	64.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	64.0
2018	7	54863	U S Power Generating Company LLC	IPP	Gowanus Gas Turbines Generating	NY	2494	SS	90.0	Natural Gas Fired Combustion Turbine	NG	GT	(T) Regulatory approvals received. Not under construction	93.0
2018	8	56615	First Solar Project Development	IPP	Snow Mountain Solar, LLC	NV	59935	GEN01	100.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	100.0
2018	10	56963	Beaver Wood Energy Fair Haven, LLC	Electric CHP	Beaver Wood Energy Fair Haven, LLC	VT	57634	GEN1	29.5	Other Waste Biomass	OBS	ST	(L) Regulatory approvals pending. Not under construction	34.0
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 6	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 7	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 8	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC 9	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC10	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	11	58847	Carlsbad Energy Center	IPP	Carlsbad Energy Center	CA	59002	CEC11	105.3	Natural Gas Fired Combustion Turbine	NG	GT	(L) Regulatory approvals pending. Not under construction	105.3
2018	12	56771	Black Hills Service Company LLC	IPP	Cheyenne Prairie Generating Station	WY	57703	02B	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	40.0
2018	12	56771	Black Hills Service Company LLC	IPP	Cheyenne Prairie Generating Station	WY	57703	03A	40.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	40.0
2018	12	59432	Clear Creek Power	IPP	Highland Park Project	CO	59659	HPWT	198.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	198.0
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	CT1	197.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	222.3
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	CT2	197.3	Natural Gas Fired Combined Cycle	NG	CT	(U) Under construction, less than or equal to 50 percent complete	222.3
2018	12	56872	Contra Costa Generating Station LLC	IPP	Oakley Generating Station	CA	57552	ST	191.3	Natural Gas Fired Combined Cycle	NG	CA	(U) Under construction, less than or equal to 50 percent complete	227.7
2018	12	58146	Gaelectric LLC	IPP	Jawbone Wind Project	MT	58175	JWPI	131.1	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	131.1
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-1	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-2	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-3	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-4	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-5	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5

Table 6.5. Planned U.S. Electric Generating Unit Additions

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code	Status	Nameplate Capacity (MW)
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	CT-6	47.2	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	64.5
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	ST-1	50.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	51.0
2018	12	58722	Jordan Cove Energy Project LP	IPP	South Dunes Power Plant	OR	58841	ST-2	50.0	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	51.0
2018	12	58371	NextEra Blythe Solar Energy Center, LLC	IPP	Blythe Solar Power Project	CA	57273	C	125.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	125.0
2018	12	58371	NextEra Blythe Solar Energy Center, LLC	IPP	Blythe Solar Power Project	CA	57273	D	125.0	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	125.0
2018	12	57470	Noble Energy Systems, Inc.	IPP	Pea Patch Wind Farm	MD	58087	PEAP	50.0	Onshore Wind Turbine	WND	WT	(T) Regulatory approvals received. Not under construction	50.0
2018	12	4202	Phillips 66-Ponca City Refinery	Industrial	Ponca City Refinery	OK	52188	G1A	3.0	Other Gases	OG	ST	(P) Planned for installation, but regulatory approvals not initiated	5.0
2018	12	59646	Summit Texas Clean Energy	IPP	Texas Clean Energy Project	TX	59859	TCE1A	274.0	Other Gases	OG	CT	(P) Planned for installation, but regulatory approvals not initiated	274.0
2018	12	59646	Summit Texas Clean Energy	IPP	Texas Clean Energy Project	TX	59859	TCE1B	126.0	Other Gases	OG	CA	(P) Planned for installation, but regulatory approvals not initiated	126.0
2018	12	2782	Terra-Gen Operating Company	IPP	Dixie Valley Power Partnership	NV	10681	GEN1	25.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	28.0
2018	12	19511	University of Alaska	Commercial	University of Alaska Fairbanks	AK	50711	GEN5	17.0	Conventional Steam Coal	SUB	ST	(P) Planned for installation, but regulatory approvals not initiated	17.0
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT01	324.4	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT02	324.4	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	CT03	324.4	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	369.8
2018	12	19876	Virginia Electric & Power Co	Electric Utility	Greensville County Power Station	VA	59913	ST01	611.8	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	663.9
2019	1	56794	CE Obsidian Energy LLC	IPP	Black Rock I	CA	57477	G3201	60.0	Geothermal	GEO	ST	(L) Regulatory approvals pending. Not under construction	70.0
2019	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG3	225.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	235.0
2019	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	CTG4	225.0	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	235.0
2019	1	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	STG2	250.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	250.0
2019	2	58768	Pondera Development LLC	IPP	CPV Pondera King Energy Center	TX	58910	CC	836.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	900.0
2019	2	20856	Wisconsin Power & Light Co	Electric Utility	Riverside Energy Center	WI	55641	PV1	2.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	2.0
2019	3	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U001	346.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	390.0
2019	3	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U002	346.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	390.0
2019	3	56534	Cricket Valley Energy Center LLC	IPP	Cricket Valley Energy	NY	57185	U003	346.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	390.0
2019	4	15473	Public Service Co of NM	Electric Utility	La Luz Energy Center	NM	58284	0002	40.2	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	42.3
2019	5	59677	Middlesex Energy Center LLC	IPP	Middlesex Energy Center LLC	NJ	59909	CT001	560.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	560.0
2019	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	23378	4	268.0	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	321.0
2019	5	18454	Tampa Electric Co	Electric Utility	Tampa Electric Co NA 2	FL	56352	1	149.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	180.0
2019	6	58881	Apex Bethel Energy Center	IPP	Apex Bethel Energy Center	TX	59048	ABEC1	158.5	Natural Gas with Compressed Air Storage	NG	CE	(T) Regulatory approvals received. Not under construction	158.5
2019	6	58881	Apex Bethel Energy Center	IPP	Apex Bethel Energy Center	TX	59048	ABEC2	158.5	Natural Gas with Compressed Air Storage	NG	CE	(T) Regulatory approvals received. Not under construction	158.5
2019	6	7277	Calpine Corporation	IPP	Wild Horse Power Plant	CA	57181	1	40.0	Geothermal	GEO	ST	(T) Regulatory approvals received. Not under construction	48.0
2019	6	7140	Georgia Power Co	Electric Utility	Vogtle	GA	649	3	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2019	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	CT1	224.9	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.5
2019	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	CT2	224.9	Natural Gas Fired Combined Cycle	NG	CT	(L) Regulatory approvals pending. Not under construction	235.5
2019	6	55983	Luminant Generation Company LLC	IPP	Eagle Mountain	TX	3489	ST1	344.4	Natural Gas Fired Combined Cycle	NG	CA	(L) Regulatory approvals pending. Not under construction	382.5
2019	6	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	3A	122.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	122.0
2019	6	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	8A	122.0	Conventional Hydroelectric	WAT	HY	(P) Planned for installation, but regulatory approvals not initiated	122.0
2019	6	17539	South Carolina Electric&Gas Company	Electric Utility	V C Summer	SC	6127	2	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG01	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG02	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG03	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG04	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG05	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	7	59235	Cogentrix Development Holdings, LLC	IPP	Buckeye Generation Center, LLC	AZ	59471	CTG06	104.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	108.7
2019	12	59365	Capital Power Corporation	IPP	Garrison Butte Wind, LLC	ND	60066	GEN	100.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	100.0
2019	12	49745	Cash Creek Generating LLC	IPP	Cash Creek	KY	56107	CT1	301.5	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	319.5
2019	12	49745	Cash Creek Generating LLC	IPP	Cash Creek	KY	56107	CT2	301.5	Natural Gas Fired Combined Cycle	NG	CT	(P) Planned for installation, but regulatory approvals not initiated	319.5
2019	12	49745	Cash Creek Generating LLC	IPP	Cash Creek	KY	56107	ST	187.0	Natural Gas Fired Combined Cycle	NG	CA	(P) Planned for installation, but regulatory approvals not initiated	187.0
2019	12	28086	Energy Unlimited Inc	IPP	Painted Hills IV Wind	CA	56926	1	19.5	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	19.5
2019	12	56615	First Solar Project Development	IPP	Desert Quartzite	CA	59871	GEN01	300.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	300.0
2019	12	56983	Gibson County Generation LLC	IPP	Gibson County Generation Station	TN	57709	1	371.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	432.0
2019	12	56094	Medicine Bow Fuel & Power LLC	IPP	Medicine Bow Fuel & Power LLC	WY	56452	1	350.0	Conventional Steam Coal	BIT	ST	(P) Planned for installation, but regulatory approvals not initiated	350.0
2019	12	14354	PacifiCorp	Electric Utility	Blundell	UT	299	3	35.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	30.0
2019	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-A	687.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	687.0
2019	12	56709	Turning Point Solar LLC	IPP	Turning Point Solar	OH	57371	TPS50	44.0	Solar Photovoltaic	SUN	PV	(L) Regulatory approvals pending. Not under construction	44.0
2020	1	56794	CE Obsidian Energy LLC	IPP	Black Rock II	CA	57478	G3202	60.0	Geothermal	GEO	ST	(T) Regulatory approvals received. Not under construction	70.0
2020	5	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	GT5	42.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	60.0
2020	6	7140	Georgia Power Co	Electric Utility	Vogtle	GA	649	4	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2020	6	17539	South Carolina Electric&Gas Company	Electric Utility	V C Summer	SC	6127	3	1,100.0	Nuclear	NUC	ST	(U) Under construction, less than or equal to 50 percent complete	1,100.0
2020	7	58758	CPV Smyth Generation Company LLC	IPP	CPV Smyth Generation Company LLC	VA	58878	1	989.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	1,017.0
2020	8	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK2	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	8	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK2	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	9	7277	Calpine Corporation	IPP	Buckeye Geothermal Power Plant	CA	57180	1	49.9	Geothermal	GEO	ST	(L) Regulatory approvals pending. Not under construction	56.9
2020	10	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK3	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	10	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK3	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	10	5580	East Kentucky Power Coop, Inc	Electric Utility	Green Valley LFGTE	KY	56278	4	0.8	Landfill Gas	LFG	IC	(P) Planned for installation, but regulatory approvals not initiated	0.8
2020	10	58381	Troutdale Energy Center LLC	IPP	Troutdale Energy Center	OR	58396	PLGEN	652.0	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	652.0
2020	12	59844	Blythe Solar III, LLC	IPP	Blythe Solar III, LLC	CA	60094	BLCK4	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	12	59845	Blythe Solar IV, LLC	IPP	Blythe Solar IV, LLC	CA	60095	BLCK4	31.2	Solar Photovoltaic	SUN	PV	(T) Regulatory approvals received. Not under construction	31.2
2020	12	7277	Calpine Corporation	IPP	Telephone Flat	CA	55846	1	42.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	49.9
2020	12	59365	Capital Power Corporation	IPP	Nolin Hills Wind, LLC	OR	60070	GEN	350.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	350.0
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	8	209.5	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	209.5
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	9	209.5	Natural Gas Fired Combined Cycle	NG	CC	(P) Planned for installation, but regulatory approvals not initiated	108.8
2020	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	I-B	813.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	813.0
2021	1	56794	CE Obsidian Energy LLC	IPP	Black Rock III	CA	57479	G303	60.0	Geothermal	GEO	ST	(T) Regulatory approvals received. Not under construction	70.0
2021	4	55927	Power4Georgians LLC	Electric Utility	Plant Washington	GA	56675	MAIN	850.0	Conventional Steam Coal	SUB	ST	(T) Regulatory approvals received. Not under construction	850.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS1	91.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	101.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS2	91.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	101.0
2021	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS3	91.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	101.0
2021	5	18454	Tampa Electric Co	Electric Utility	Tampa Electric Co NA 2	FL	56352	2	204.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	220.0
2022	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS4	91.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	101.0
2022	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS5	91.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	101.0
2022	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS6	91.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	101.0
2022	12	56943	Blackstone Wind Farm III LLC	IPP	Blackstone Wind Farm III	IL	57618	GEN1	200.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	200.0
2022	12	56944	Blackstone Wind Farm IV LLC	IPP	Blackstone Wind Farm IV	IL	57619	GEN1	100.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	100.0
2022	12	7277	Calpine Corporation	IPP	Four Mile Hill	CA	55845	1	42.0	Geothermal	GEO	ST	(P) Planned for installation, but regulatory approvals not initiated	49.9
2022	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	II-A	750.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	750.0
2022	12	56425	Simpson Ridge Wind Farm LLC	IPP	Simpson Ridge Wind Farm LLC	WY	57117	GEN 1	50.0	Onshore Wind Turbine	WND	WT	(P) Planned for installation, but regulatory approvals not initiated	50.0
2023	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS7	91.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	101.0
2023	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS8	91.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	101.0
2023	5	16572	Salt River Project	Electric Utility	Copper Crossing Gen Station	AZ	58413	CCGS9	91.0	Natural Gas Fired Combustion Turbine	NG	GT	(P) Planned for installation, but regulatory approvals not initiated	101.0
2023	12	58842	Power Company of Wyoming LLC	IPP	Chokecherry and Sierra Madre Wind	WY	58987	II-B	750.0	Onshore Wind Turbine	WND	WT	(L) Regulatory approvals pending. Not under construction	750.0

NOTES:

Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this report. This exclusion may represent a significaint portion of capacity for some technologies such as solar photovoltaic generation.

Entity ID and Plant ID are official, unique identification numbers assigned by EIA; Generator IDs are assigned by plant owners and/or operators.

Descriptions for the Energy Source Codes and the Prime Mover Codes listed in the table can be found in the Technical Notes.

Table 6.6. Planned U.S. Electric Generating Unit Retirements

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2015	12	221	Alaska Village Elec Coop, Inc	Electric Utility	Mountain Village	AK	6329	4	0.6	Petroleum Liquids	DFO	IC
2015	12	733	Appalachian Power Co	Electric Utility	Clinch River	VA	3775	3	230.0	Conventional Steam Coal	BIT	ST
2015	12	733	Appalachian Power Co	Electric Utility	Kanawha River	WV	3936	1	200.0	Conventional Steam Coal	BIT	ST
2015	12	733	Appalachian Power Co	Electric Utility	Kanawha River	WV	3936	2	200.0	Conventional Steam Coal	BIT	ST
2015	12	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC2	0.9	Natural Gas Internal Combustion Engine	NG	IC
2015	12	11713	City of Marshall - (MI)	Electric Utility	Marshall (MI)	MI	1844	IC4	0.7	Petroleum Liquids	DFO	IC
2015	12	7175	General Mills Operations Inc	Industrial	General Mills Operations Lodi	CA	10031	1	3.2	Natural Gas Fired Combustion Turbine	NG	GT
2015	12	13584	NRG El Segundo Operations Inc	IPP	El Segundo Power	CA	330	4	335.0	Natural Gas Steam Turbine	NG	ST
2015	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Seminole (OK)	OK	2956	GT1	16.5	Natural Gas Fired Combustion Turbine	NG	GT
2015	12	15466	Public Service Co of Colorado	Electric Utility	Ponnequin	CO	7937	30	9.9	Onshore Wind Turbine	WND	WT
2015	12	15466	Public Service Co of Colorado	Electric Utility	Ponnequin	CO	7937	8	15.4	Onshore Wind Turbine	WND	WT
2015	12	15466	Public Service Co of Colorado	Electric Utility	Zuni	CO	478	2	60.0	Natural Gas Steam Turbine	NG	ST
2015	12	16181	Rochester Public Utilities	Electric Utility	Silver Lake	MN	2008	1	6.6	Conventional Steam Coal	BIT	ST
2015	12	16181	Rochester Public Utilities	Electric Utility	Silver Lake	MN	2008	2	7.0	Conventional Steam Coal	BIT	ST
2015	12	16181	Rochester Public Utilities	Electric Utility	Silver Lake	MN	2008	3	20.0	Conventional Steam Coal	BIT	ST
2015	12	16181	Rochester Public Utilities	Electric Utility	Silver Lake	MN	2008	4	46.4	Conventional Steam Coal	BIT	ST
2015	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	10	141.0	Conventional Steam Coal	SUB	ST
2015	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	5	107.0	Conventional Steam Coal	SUB	ST
2015	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	6	107.0	Conventional Steam Coal	SUB	ST
2015	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	7	141.0	Conventional Steam Coal	SUB	ST
2015	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	8	141.0	Conventional Steam Coal	SUB	ST
2015	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	9	141.0	Conventional Steam Coal	SUB	ST
2015	12	20856	Wisconsin Power & Light Co	Electric Utility	Edgewater	WI	4050	3	47.2	Conventional Steam Coal	SUB	ST
2015	12	20856	Wisconsin Power & Light Co	Electric Utility	Nelson Dewey Generating Station	WI	4054	1	103.1	Conventional Steam Coal	SUB	ST
2015	12	20856	Wisconsin Power & Light Co	Electric Utility	Nelson Dewey Generating Station	WI	4054	2	103.1	Conventional Steam Coal	SUB	ST
2016	1	221	Alaska Village Elec Coop, Inc	Electric Utility	Hooper Bay	AK	6319	5	0.5	Petroleum Liquids	DFO	IC
2016	1	8198	City of Harrisonburg - (VA)	Electric Utility	Harrisonburg Power Plant	VA	56006	ST-1	2.7	Natural Gas Steam Turbine	NG	ST
2016	1	9231	City of Independence - (MO)	Electric Utility	Missouri City	MO	2171	1	19.0	Conventional Steam Coal	BIT	ST
2016	1	9231	City of Independence - (MO)	Electric Utility	Missouri City	MO	2171	2	19.0	Conventional Steam Coal	BIT	ST
2016	1	11142	City of Logansport - (IN)	Electric Utility	Logansport	IN	1032	4	16.5	Conventional Steam Coal	BIT	ST
2016	1	11142	City of Logansport - (IN)	Electric Utility	Logansport	IN	1032	5	22.0	Conventional Steam Coal	BIT	ST
2016	1	11142	City of Logansport - (IN)	Electric Utility	Logansport	IN	1032	6	15.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	1	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	3	445.0	Natural Gas Steam Turbine	NG	ST
2016	3	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	GT1	12.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	3	7801	Gulf Power Co	Electric Utility	Lansing Smith	FL	643	1	162.0	Conventional Steam Coal	BIT	ST
2016	3	7801	Gulf Power Co	Electric Utility	Lansing Smith	FL	643	2	195.0	Conventional Steam Coal	BIT	ST
2016	3	54843	WM Illinois Renewable Energy LLC	IPP	Lake Gas Recovery	IL	50575	GEN2	2.9	Landfill Gas	LFG	GT
2016	3	54843	WM Illinois Renewable Energy LLC	IPP	Lake Gas Recovery	IL	50575	GEN3	2.9	Landfill Gas	LFG	GT
2016	3	54842	WM Renewable Energy LLC	IPP	BJ Gas Recovery	GA	54392	GEN1	0.8	Landfill Gas	LFG	IC
2016	3	54842	WM Renewable Energy LLC	IPP	BJ Gas Recovery	GA	54392	GEN3	0.8	Landfill Gas	LFG	IC
2016	3	54842	WM Renewable Energy LLC	IPP	Monroe Livingston Gas Recovery	NY	50565	GEN2	0.8	Landfill Gas	LFG	IC
2016	4	4254	Consumers Energy Co	Electric Utility	B C Cobb	MI	1695	4	156.0	Conventional Steam Coal	SUB	ST
2016	4	4254	Consumers Energy Co	Electric Utility	B C Cobb	MI	1695	5	156.0	Conventional Steam Coal	SUB	ST
2016	4	4254	Consumers Energy Co	Electric Utility	J C Weadock	MI	1720	7	152.0	Conventional Steam Coal	SUB	ST
2016	4	4254	Consumers Energy Co	Electric Utility	J C Weadock	MI	1720	8	151.0	Conventional Steam Coal	SUB	ST
2016	4	4254	Consumers Energy Co	Electric Utility	J R Whiting	MI	1723	1	102.0	Conventional Steam Coal	SUB	ST
2016	4	4254	Consumers Energy Co	Electric Utility	J R Whiting	MI	1723	2	95.0	Conventional Steam Coal	SUB	ST
2016	4	4254	Consumers Energy Co	Electric Utility	J R Whiting	MI	1723	3	122.0	Conventional Steam Coal	SUB	ST
2016	4	15470	Duke Energy Indiana Inc	Electric Utility	Wabash River	IN	1010	2	85.0	Conventional Steam Coal	BIT	ST
2016	4	15470	Duke Energy Indiana Inc	Electric Utility	Wabash River	IN	1010	3	85.0	Conventional Steam Coal	BIT	ST
2016	4	15470	Duke Energy Indiana Inc	Electric Utility	Wabash River	IN	1010	4	85.0	Conventional Steam Coal	BIT	ST
2016	4	15470	Duke Energy Indiana Inc	Electric Utility	Wabash River	IN	1010	5	95.0	Conventional Steam Coal	BIT	ST
2016	4	5580	East Kentucky Power Coop, Inc	Electric Utility	Dale	KY	1385	3	74.0	Conventional Steam Coal	BIT	ST
2016	4	5580	East Kentucky Power Coop, Inc	Electric Utility	Dale	KY	1385	4	75.0	Conventional Steam Coal	BIT	ST
2016	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	3	40.0	Conventional Steam Coal	BIT	ST
2016	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	4	56.0	Conventional Steam Coal	BIT	ST
2016	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	5	62.0	Conventional Steam Coal	BIT	ST
2016	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	6	99.0	Conventional Steam Coal	BIT	ST
2016	4	9273	Indianapolis Power & Light Co	Electric Utility	Eagle Valley (IN)	IN	991	IC1	3.0	Petroleum Liquids	DFO	IC
2016	4	10000	Kansas City Power & Light Co	Electric Utility	Montrose	MO	2080	1	170.0	Conventional Steam Coal	SUB	ST
2016	4	12341	MidAmerican Energy Co	Electric Utility	George Neal North	IA	1091	1	134.3	Conventional Steam Coal	SUB	ST
2016	4	12341	MidAmerican Energy Co	Electric Utility	George Neal North	IA	1091	2	283.7	Conventional Steam Coal	SUB	ST
2016	4	12869	Monterey Regional Waste Mgmt	Commercial	Marina Landfill Gas	CA	10748	U3J98	1.0	Landfill Gas	LFG	IC
2016	4	26840	Port Townsend Paper Co	Industrial	Port Townsend Paper	WA	50544	GEN4	3.0	Wood/Wood Waste Biomass	BLQ	ST
2016	4	15474	Public Service Co of Oklahoma	Electric Utility	Northeastern	OK	2963	4	460.0	Conventional Steam Coal	SUB	ST
2016	4	17698	Southwestern Electric Power Co	Electric Utility	Welsh	TX	6139	2	528.0	Conventional Steam Coal	SUB	ST
2016	4	18642	Tennessee Valley Authority	Electric Utility	Colbert	AL	47	1	178.0	Conventional Steam Coal	BIT	ST
2016	4	18642	Tennessee Valley Authority	Electric Utility	Colbert	AL	47	2	178.0	Conventional Steam Coal	BIT	ST
2016	4	18642	Tennessee Valley Authority	Electric Utility	Colbert	AL	47	3	178.0	Conventional Steam Coal	BIT	ST
2016	4	18642	Tennessee Valley Authority	Electric Utility	Colbert	AL	47	4	178.0	Conventional Steam Coal	BIT	ST
2016	5	4161	Constellation Power Source Gen	IPP	Riverside (MD)	MD	1559	4	74.0	Natural Gas Steam Turbine	NG	ST
2016	5	6455	Duke Energy Florida, Inc	Electric Utility	Avon Park	FL	624	P1	24.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	5	6455	Duke Energy Florida, Inc	Electric Utility	Avon Park	FL	624	P2	24.0	Petroleum Liquids	DFO	GT
2016	5	6455	Duke Energy Florida, Inc	Electric Utility	G E Turner	FL	629	P1	10.0	Petroleum Liquids	DFO	GT
2016	5	6455	Duke Energy Florida, Inc	Electric Utility	G E Turner	FL	629	P2	10.0	Petroleum Liquids	DFO	GT
2016	5	6455	Duke Energy Florida, Inc	Electric Utility	G E Turner	FL	629	P4	59.0	Petroleum Liquids	DFO	GT
2016	5	6455	Duke Energy Florida, Inc	Electric Utility	Rio Pinar	FL	637	P1	12.0	Petroleum Liquids	DFO	GT
2016	5	56217	Portsmouth Operating Services LLC	IPP	Portsmouth Genco LLC	VA	10071	GEN1	57.5	Conventional Steam Coal	BIT	ST
2016	5	56217	Portsmouth Operating Services LLC	IPP	Portsmouth Genco LLC	VA	10071	GEN2	57.5	Conventional Steam Coal	BIT	ST
2016	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	IC1	2.0	Petroleum Liquids	DFO	IC
2016	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	IC2	2.0	Petroleum Liquids	DFO	IC
2016	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	IC3	2.0	Petroleum Liquids	DFO	IC
2016	5	55768	RC Cape May Holdings LLC	IPP	B L England	NJ	2378	IC4	2.0	Petroleum Liquids	DFO	IC
2016	5	20838	Win-Sam Inc	Commercial	University of Texas at San Antonio	TX	54606	GEN1	3.3	Natural Gas Internal Combustion Engine	NG	IC
2016	6	1009	City of Austin - (MN)	Electric Utility	Austin Northeast	MN	1961	1	28.0	Natural Gas Steam Turbine	NG	ST
2016	6	5269	Dynegy	Electric Utility	Miami Fort	OH	2832	6	163.0	Conventional Steam Coal	BIT	ST
2016	6	50128	Georgia-Pacific Consr Ops LLC-Palatka	Industrial	Georgia-Pacific Palatka Operations	FL	10611	GEN2	7.0	Natural Gas Steam Turbine	NG	ST
2016	6	12807	Michigan South Central Pwr Agy	Electric Utility	Endicott Station	MI	4259	1	55.0	Conventional Steam Coal	BIT	ST
2016	6	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS1	0.9	Conventional Hydroelectric	WAT	HY
2016	6	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS2	0.9	Conventional Hydroelectric	WAT	HY
2016	6	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS3	0.9	Conventional Hydroelectric	WAT	HY
2016	6	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS4	0.9	Conventional Hydroelectric	WAT	HY
2016	6	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS5	0.9	Conventional Hydroelectric	WAT	HY
2016	6	25835	Portland City of	IPP	Ground Water Pumping Station	OR	50105	GPS6	0.9	Conventional Hydroelectric	WAT	HY
2016	6	18125	Stillwater Utilities Authority	Electric Utility	Boomer Lake Station	OK	3000	2	13.0	Natural Gas Steam Turbine	NG	ST
2016	6	54842	WM Renewable Energy LLC	IPP	New Milford Gas Recovery	CT	50564	GEN4	0.8	Landfill Gas	LFG	IC
2016	7	7140	Georgia Power Co	Electric Utility	Mitchell (GA)	GA	727	3	155.0	Conventional Steam Coal	BIT	ST
2016	7	17578	South Orange Co Wastewtr Auth	Commercial	Aliso Water Management Agency	CA	10820	GEN1	0.4	Other Waste Biomass	OBG	IC
2016	7	17578	South Orange Co Wastewtr Auth	Commercial	Aliso Water Management Agency	CA	10820	GEN2	0.4	Other Waste Biomass	OBG	IC
2016	7	17578	South Orange Co Wastewtr Auth	Commercial	Aliso Water Management Agency	CA	10820	GEN3	0.4	Other Waste Biomass	OBG	IC
2016	8	14534	City of Pasadena - (CA)	Electric Utility	Broadway (CA)	CA	420	B3	71.0	Natural Gas Steam Turbine	NG	ST
2016	8	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	1	1.3	Conventional Hydroelectric	WAT	HY
2016	8	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	2	1.3	Conventional Hydroelectric	WAT	HY
2016	8	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	3	1.3	Conventional Hydroelectric	WAT	HY
2016	8	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	4	1.2	Conventional Hydroelectric	WAT	HY
2016	8	20847	Wisconsin Electric Power Co	Electric Utility	Twin Falls (MI)	MI	1784	5	1.2	Conventional Hydroelectric	WAT	HY
2016	10	18445	City of Tallahassee - (FL)	Electric Utility	S O Purdom	FL	689	GT1	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	10	18445	City of Tallahassee - (FL)	Electric Utility	S O Purdom	FL	689	GT2	10.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	11	55932	Georgia-Pacific Brewton LLC	Industrial	Georgia-Pacific Brewton Mill	AL	54789	1TG	10.5	Wood/Wood Waste Biomass	BLQ	ST
2016	12	4045	City of Columbia - (MO)	Electric Utility	Columbia (MO)	MO	2123	5	16.5	Conventional Steam Coal	BIT	ST
2016	12	5347	Dow Chemical Co	Industrial	LaO Energy Systems	LA	52006	GEN7	95.0	Natural Gas Fired Combined Cycle	NG	CT
2016	12	8287	Hawaii Electric Light Co Inc	Electric Utility	Shipman	HI	6478	3	7.5	Petroleum Liquids	RFO	ST
2016	12	8287	Hawaii Electric Light Co Inc	Electric Utility	Shipman	HI	6478	4	7.5	Petroleum Liquids	RFO	ST
2016	12	49756	Illinois Power Resources Generating LLC	Electric Utility	E D Edwards	IL	856	1	95.0	Conventional Steam Coal	SUB	ST
2016	12	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	3	31.1	Natural Gas Steam Turbine	NG	ST
2016	12	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	4	37.3	Natural Gas Steam Turbine	NG	ST
2016	12	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	IC1	2.0	Petroleum Liquids	DFO	IC
2016	12	9417	Interstate Power and Light Co	Electric Utility	Dubuque	IA	1046	IC2	1.4	Petroleum Liquids	DFO	IC
2016	12	13960	NRG Cabrillo Power Ops Inc	IPP	El Cajon	CA	301	ENCI	16.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	12	13960	NRG Cabrillo Power Ops Inc	IPP	Kearny	CA	303	KEA2	59.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	12	13960	NRG Cabrillo Power Ops Inc	IPP	Kearny	CA	303	KEA3	61.0	Natural Gas Fired Combustion Turbine	NG	GT
2016	12	13960	NRG Cabrillo Power Ops Inc	IPP	Miramar	CA	305	MRGT	36.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	1	14328	Pacific Gas & Electric Co	Electric Utility	Cow Creek	CA	229	1	0.9	Conventional Hydroelectric	WAT	HY

Table 6.6. Planned U.S. Electric Generating Unit Retirements

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2017	1	14328	Pacific Gas & Electric Co	Electric Utility	Cow Creek	CA	229	2	0.9	Conventional Hydroelectric	WAT	HY
2017	1	14328	Pacific Gas & Electric Co	Electric Utility	Kilarc	CA	253	1	1.6	Conventional Hydroelectric	WAT	HY
2017	1	14328	Pacific Gas & Electric Co	Electric Utility	Kilarc	CA	253	2	1.6	Conventional Hydroelectric	WAT	HY
2017	1	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	1	159.0	Conventional Steam Coal	BIT	ST
2017	1	19876	Virginia Electric & Power Co	Electric Utility	Yorktown	VA	3809	2	164.0	Conventional Steam Coal	BIT	ST
2017	3	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	GT2	24.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	4	7490	Grand River Dam Authority	Electric Utility	GREC	OK	165	1	482.0	Conventional Steam Coal	SUB	ST
2017	5	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	6	45.0	Natural Gas Steam Turbine	NG	ST
2017	5	12628	NRG Chalk Point LLC	IPP	Chalk Point LLC	MD	1571	ST1	331.0	Conventional Steam Coal	BIT	ST
2017	5	12628	NRG Chalk Point LLC	IPP	Chalk Point LLC	MD	1571	ST2	336.0	Conventional Steam Coal	BIT	ST
2017	5	15452	PSEG Power Connecticut LLC	IPP	Bridgeport Station	CT	568	4	16.9	Petroleum Liquids	KER	GT
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	1	236.1	Conventional Steam Coal	BIT	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	2	238.6	Conventional Steam Coal	BIT	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	3	596.3	Conventional Steam Coal	BIT	ST
2017	6	58534	Brayton Point Energy LLC	IPP	Brayton Point	MA	1619	4	434.0	Petroleum Liquids	RFO	ST
2017	6	54899	NAES Corporation - (DE)	IPP	McKee Run	DE	599	1	17.0	Natural Gas Steam Turbine	NG	ST
2017	6	54899	NAES Corporation - (DE)	IPP	McKee Run	DE	599	2	17.0	Natural Gas Steam Turbine	NG	ST
2017	6	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	1	628.0	Conventional Steam Coal	BIT	ST
2017	6	18642	Tennessee Valley Authority	Electric Utility	Paradise	KY	1378	2	602.0	Conventional Steam Coal	BIT	ST
2017	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	3	103.8	Conventional Hydroelectric	WAT	HY
2017	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	4	103.8	Conventional Hydroelectric	WAT	HY
2017	10	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT1	0.5	Landfill Gas	LFG	IC
2017	10	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT2	0.3	Landfill Gas	LFG	IC
2017	10	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT3	0.3	Landfill Gas	LFG	IC
2017	10	5677	Waste Energy Services Inc	Electric CHP	Waste Energy Services	MI	50077	CAT4	0.3	Landfill Gas	LFG	IC
2017	12	463	Ameresco LFG I Inc	IPP	Al Turi	NY	10549	3010	0.8	Landfill Gas	LFG	IC
2017	12	56730	Cedar Bay Operating Services LLC	Electric CHP	Cedar Bay Generating Company LP	FL	10672	GEN1	250.0	Conventional Steam Coal	BIT	ST
2017	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	4	83.0	Natural Gas Fired Combined Cycle	NG	CA
2017	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT1	72.0	Natural Gas Fired Combined Cycle	NG	CT
2017	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	CT2	72.0	Natural Gas Fired Combined Cycle	NG	CT
2017	12	5701	El Paso Electric Co	Electric Utility	Rio Grande	NM	2444	7	46.0	Natural Gas Steam Turbine	NG	ST
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT1	15.5	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT2	13.2	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT3	14.3	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Burlington (IA)	IA	1104	GT4	15.3	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	1	1.9	Petroleum Liquids	DFO	IC
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	2	1.8	Petroleum Liquids	DFO	IC
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	3	1.8	Petroleum Liquids	DFO	IC
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	GT1	21.8	Petroleum Liquids	DFO	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Centerville	IA	1105	GT2	25.9	Petroleum Liquids	DFO	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Fox Lake	MN	1888	1	13.0	Natural Gas Steam Turbine	NG	ST
2017	12	9417	Interstate Power and Light Co	Electric Utility	Fox Lake	MN	1888	3	85.6	Natural Gas Steam Turbine	NG	ST
2017	12	9417	Interstate Power and Light Co	Electric Utility	Grinnell	IA	7137	1	24.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Grinnell	IA	7137	2	20.4	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	9417	Interstate Power and Light Co	Electric Utility	Sutherland	IA	1077	1	28.7	Natural Gas Steam Turbine	NG	ST
2017	12	9417	Interstate Power and Light Co	Electric Utility	Sutherland	IA	1077	3	82.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	2	104.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	3	110.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	4	300.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	5	330.0	Natural Gas Steam Turbine	NG	ST
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	GT1	14.0	Natural Gas Fired Combustion Turbine	NG	GT
2017	12	13960	NRG Cabrillo Power Ops Inc	IPP	Encina	CA	302	ST1	106.0	Natural Gas Steam Turbine	NG	ST
2017	12	13407	Nevada Power Co	Electric Utility	Reid Gardner	NV	2324	4	257.0	Conventional Steam Coal	BIT	ST
2017	12	59099	New Dimension Energy Company, LLC	IPP	Altamont Midway Ltd	CA	50001	WTGS	10.9	Onshore Wind Turbine	WND	WT
2017	12	59099	New Dimension Energy Company, LLC	IPP	Dyer Road	CA	50818	GEN1	10.5	Onshore Wind Turbine	WND	WT
2017	12	59099	New Dimension Energy Company, LLC	IPP	Santa Clara (85C)	CA	50534	WGNS	18.0	Onshore Wind Turbine	WND	WT
2017	12	13781	Northern States Power Co - Minnesota	Electric Utility	Red Wing	MN	1926	1	9.0	Municipal Solid Waste	MSW	ST
2017	12	13781	Northern States Power Co - Minnesota	Electric Utility	Red Wing	MN	1926	2	9.0	Municipal Solid Waste	MSW	ST
2017	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	1	51.0	Natural Gas Steam Turbine	NG	ST
2017	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	2	51.0	Natural Gas Steam Turbine	NG	ST
2017	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	3	116.5	Natural Gas Steam Turbine	NG	ST
2017	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Mustang	OK	2953	4	257.0	Natural Gas Steam Turbine	NG	ST
2017	12	14030	Oklahoma State University	Commercial	Oklahoma State University	OK	54779	GEN1	1.6	Natural Gas Steam Turbine	NG	ST
2017	12	14030	Oklahoma State University	Commercial	Oklahoma State University	OK	54779	GEN2	1.6	Natural Gas Steam Turbine	NG	ST
2017	12	14030	Oklahoma State University	Commercial	Oklahoma State University	OK	54779	GEN4	5.2	Natural Gas Steam Turbine	NG	ST
2017	12	15466	Public Service Co of Colorado	Electric Utility	Valmont	CO	477	5	184.0	Conventional Steam Coal	BIT	ST
2017	12	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	2	340.0	Conventional Steam Coal	BIT	ST
2017	12	15473	Public Service Co of NM	Electric Utility	San Juan	NM	2451	3	497.0	Conventional Steam Coal	BIT	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	1	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	2	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	3	107.0	Conventional Steam Coal	SUB	ST
2017	12	18642	Tennessee Valley Authority	Electric Utility	Johnsonville	TN	3406	4	107.0	Conventional Steam Coal	SUB	ST
2018	1	12541	City of Milford - (IA)	Electric Utility	Milford	IA	1164	1	0.6	Petroleum Liquids	DFO	IC
2018	1	12541	City of Milford - (IA)	Electric Utility	Milford	IA	1164	4	0.5	Petroleum Liquids	DFO	IC
2018	1	17891	City of St Marys - (OH)	Electric Utility	St Marys	OH	2942	7	12.0	Petroleum Liquids	DFO	GT
2018	4	6455	Duke Energy Florida, Inc	Electric Utility	Crystal River	FL	628	1	370.0	Conventional Steam Coal	BIT	ST
2018	4	6455	Duke Energy Florida, Inc	Electric Utility	Crystal River	FL	628	2	499.0	Conventional Steam Coal	BIT	ST
2018	5	6455	Duke Energy Florida, Inc	Electric Utility	Suwannee River	FL	638	1	28.0	Natural Gas Steam Turbine	NG	ST
2018	5	6455	Duke Energy Florida, Inc	Electric Utility	Suwannee River	FL	638	2	29.0	Natural Gas Steam Turbine	NG	ST
2018	5	6455	Duke Energy Florida, Inc	Electric Utility	Suwannee River	FL	638	3	71.0	Natural Gas Steam Turbine	NG	ST
2018	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	2	173.0	Conventional Steam Coal	BIT	ST
2018	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	3	173.0	Conventional Steam Coal	BIT	ST
2018	5	12653	GenOn Mid-Atlantic LLC	IPP	Dickerson	MD	1572	ST1	173.0	Conventional Steam Coal	BIT	ST
2018	6	9397	International Turbine Res Inc	IPP	Dinosaur Point	CA	10005	WTGS	17.0	Onshore Wind Turbine	WND	WT
2018	7	7308	Hawkeye Energy Greenport LLC	IPP	Hawkeye Energy Greenport LLC	NY	55969	U-01	52.5	Petroleum Liquids	KER	GT
2018	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	1	113.0	Natural Gas Steam Turbine	NG	ST
2018	12	16604	City of San Antonio - (TX)	Electric Utility	J T Deely	TX	6181	1	420.0	Conventional Steam Coal	SUB	ST
2018	12	16604	City of San Antonio - (TX)	Electric Utility	J T Deely	TX	6181	2	420.0	Conventional Steam Coal	SUB	ST
2018	12	12384	Midwest Generations EME LLC	IPP	Will County	IL	884	4	510.0	Conventional Steam Coal	SUB	ST
2018	12	17539	South Carolina Electric&Gas Company	Electric Utility	McMeekin	SC	3287	1	125.0	Conventional Steam Coal	BIT	ST
2018	12	17539	South Carolina Electric&Gas Company	Electric Utility	McMeekin	SC	3287	2	125.0	Conventional Steam Coal	BIT	ST
2018	12	20856	Wisconsin Power & Light Co	Electric Utility	Edgewater	WI	4050	4	294.9	Conventional Steam Coal	SUB	ST
2019	8	14624	PUD No 2 of Grant County	Electric Utility	Wanapum	WA	3888	8	103.8	Conventional Hydroelectric	WAT	HY
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	1	2.0	Petroleum Liquids	DFO	IC
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	2	2.0	Petroleum Liquids	DFO	IC
2019	9	17166	Sierra Pacific Power Co	Electric Utility	Brunswick	NV	6510	3	2.0	Petroleum Liquids	DFO	IC
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	1	191.0	Conventional Steam Coal	BIT	ST
2019	11	3046	Duke Energy Progress - (NC)	Electric Utility	Asheville	NC	2706	2	185.0	Conventional Steam Coal	BIT	ST
2019	12	195	Alabama Power Co	Electric Utility	Barry	AL	3	1	138.0	Conventional Steam Coal	BIT	ST
2019	12	195	Alabama Power Co	Electric Utility	Barry	AL	3	2	137.0	Conventional Steam Coal	BIT	ST
2019	12	195	Alabama Power Co	Electric Utility	Gadsden	AL	7	1	64.0	Conventional Steam Coal	BIT	ST
2019	12	195	Alabama Power Co	Electric Utility	Gadsden	AL	7	2	66.0	Conventional Steam Coal	BIT	ST
2019	12	56706	Chevron Technology Ventures	IPP	Questa Solar Facility	NM	57369	OST	1.0	Solar Photovoltaic	SUN	PV
2019	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	1	74.0	Natural Gas Steam Turbine	NG	ST
2019	12	5701	El Paso Electric Co	Electric Utility	Newman	TX	3456	3	102.0	Natural Gas Steam Turbine	NG	ST
2019	12	55951	Exelon Nuclear	IPP	Oyster Creek	NJ	2388	1	609.9	Nuclear	NUC	ST
2019	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	1	49.8	Conventional Steam Coal	SUB	ST
2019	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Sibley	MO	2094	2	47.1	Conventional Steam Coal	SUB	ST
2019	12	11820	Massachusetts Inst of Tech	Commercial	Mass Inst Tech Cntrl Utilities/Cogen Plt	MA	54907	CTG1	19.0	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	12686	Mississippi Power Co	Electric Utility	Jack Watson	MS	2049	3	107.0	Natural Gas Steam Turbine	NG	ST
2019	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	3	24.0	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	4	14.2	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	5	41.5	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	20856	Wisconsin Power & Light Co	Electric Utility	Rock River	WI	4057	6	43.4	Natural Gas Fired Combustion Turbine	NG	GT
2019	12	20856	Wisconsin Power & Light Co	Electric Utility	Sheepskin	WI	4059	1	28.4	Natural Gas Fired Combustion Turbine	NG	GT
2020	1	21622	The University of Texas at Dallas	Commercial	University of Texas at Dallas	TX	54607	GEN1	3.5	Natural Gas Internal Combustion Engine	NG	IC
2020	1	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	5	55.0	Conventional Steam Coal	SUB	ST
2020	1	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	6	55.0	Conventional Steam Coal	SUB	ST
2020	1	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	7	78.0	Conventional Steam Coal	SUB	ST
2020	1	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	8	78.0	Conventional Steam Coal	SUB	ST
2020	1	20847	Wisconsin Electric Power Co	Electric Utility	Presque Isle	MI	1769	9	78.0	Conventional Steam Coal	SUB	ST
2020	5	6455	Duke Energy Florida, Inc	Electric Utility	Higgins	FL	630	P1	20.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, Inc	Electric Utility	Higgins	FL	630	P2	25.0	Natural Gas Fired Combustion Turbine	NG	GT

Table 6.6. Planned U.S. Electric Generating Unit Retirements

Year	Month	Entity ID	Entity Name	Plant Producer Type	Plant Name	Plant State	Plant ID	Generator ID	Net Summer Capacity (MW)	Technology	Energy Source Code	Prime Mover Code
2020	5	6455	Duke Energy Florida, Inc	Electric Utility	Higgins	FL	630	P3	30.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	5	6455	Duke Energy Florida, Inc	Electric Utility	Higgins	FL	630	P4	30.0	Natural Gas Fired Combustion Turbine	NG	GT
2020	6	58177	Raven Power Holdings LLC	IPP	C P Crane	MD	1552	1	190.0	Conventional Steam Coal	SUB	ST
2020	6	58177	Raven Power Holdings LLC	IPP	C P Crane	MD	1552	2	195.0	Conventional Steam Coal	SUB	ST
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL00	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL01	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL02	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL03	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL04	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL05	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL06	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL07	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL08	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL09	0.1	Other Waste Biomass	OBG	FC
2020	11	56778	Bloom Energy 2009 PPA	IPP	Caltech Central	CA	57460	CL10	0.1	Other Waste Biomass	OBG	FC
2020	12	56211	KCP&L Greater Missouri Operations Co	Electric Utility	Lake Road (MO)	MO	2098	4	96.3	Conventional Steam Coal	SUB	ST
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	1	174.0	Natural Gas Steam Turbine	NG	ST
2020	12	11208	Los Angeles Department of Water & Power	Electric Utility	Scattergood	CA	404	2	177.0	Natural Gas Steam Turbine	NG	ST
2020	12	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	2	58.0	Conventional Steam Coal	SUB	ST
2020	12	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	3	80.0	Conventional Steam Coal	SUB	ST
2020	12	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	D1	0.2	Petroleum Liquids	DFO	IC
2020	12	14232	Otter Tail Power Co	Electric Utility	Hoot Lake	MN	1943	D2	0.1	Petroleum Liquids	DFO	IC
2020	12	19099	TransAlta Centralia Gen LLC	IPP	Transalta Centralia Generation	WA	3845	1	670.0	Conventional Steam Coal	SUB	ST
2020	12	19148	Veolia Energy Trenton L.P	Commercial	Veolia Energy Trenton L.P.	NJ	50094	7214	5.8	Natural Gas Internal Combustion Engine	NG	IC
2021	1	18445	City of Tallahassee - (FL)	Electric Utility	Arvah B Hopkins	FL	688	1	76.0	Natural Gas Steam Turbine	NG	ST
2021	1	15248	Portland General Electric Co	Electric Utility	Boardman	OR	6106	1	585.0	Conventional Steam Coal	SUB	ST
2021	5	58435	Collinwood BioEnergy	Industrial	Collinwood BioEnergy Facility	OH	58439	CBE01	1.0	Other Waste Biomass	OBG	IC
2021	9	17166	Sierra Pacific Power Co	Electric Utility	Fort Churchill	NV	2330	2	113.0	Natural Gas Steam Turbine	NG	ST
2021	12	10000	Kansas City Power & Light Co	Electric Utility	Montrose	MO	2080	2	164.0	Conventional Steam Coal	SUB	ST
2021	12	10000	Kansas City Power & Light Co	Electric Utility	Montrose	MO	2080	3	176.0	Conventional Steam Coal	SUB	ST
2021	12	12686	Mississippi Power Co	Electric Utility	Sweatt	MS	2048	1	46.0	Natural Gas Steam Turbine	NG	ST
2021	12	12686	Mississippi Power Co	Electric Utility	Sweatt	MS	2048	2	46.0	Natural Gas Steam Turbine	NG	ST
2021	12	17166	Sierra Pacific Power Co	Electric Utility	North Valmy	NV	8224	1	254.0	Conventional Steam Coal	BIT	ST
2022	1	59409	Eco Services Operations LLC	Industrial	Houston Plant	TX	52065	GEN2	1.5	All Other	OTH	ST
2022	8	6909	Gainesville Regional Utilities	Electric Utility	Deerhaven Generating Station	FL	663	1	75.0	Natural Gas Steam Turbine	NG	ST
2022	9	177	AES Hawaii Inc	Electric CHP	AES Hawaii	HI	10673	GEN1	180.0	Conventional Steam Coal	BIT	ST
2023	1	11135	City of Logan - (UT)	Electric Utility	Hydro III	UT	3675	HY1	0.7	Conventional Hydroelectric	WAT	HY
2023	1	11135	City of Logan - (UT)	Electric Utility	Hydro III	UT	3675	HY2	0.7	Conventional Hydroelectric	WAT	HY
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTA	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTB	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	GTC	21.7	Natural Gas Fired Combined Cycle	NG	CT
2023	3	13399	Nevada Cogeneration Assoc # 1	Electric CHP	Nevada Cogen Assoc#1 GarnetVly	NV	54350	STM	24.0	Natural Gas Fired Combined Cycle	NG	CA
2023	12	13781	Northern States Power Co - Minnesota	Electric Utility	Cornell	WI	6086	4	0.4	Conventional Hydroelectric	WAT	HY
2023	12	14063	Oklahoma Gas & Electric Co	Electric Utility	Horseshoe Lake	OK	2951	6	166.0	Natural Gas Steam Turbine	NG	ST
2024	7	1951	White Pine Electric Power LLC	IPP	White Pine Electric Power	MI	10148	GEN1	18.0	Natural Gas Steam Turbine	NG	ST
2024	7	1951	White Pine Electric Power LLC	IPP	White Pine Electric Power	MI	10148	GEN3	18.0	Natural Gas Steam Turbine	NG	ST
2034	3	58710	Lakeswind Power Partners	IPP	Lakeswind Power Partners	MN	58836	LW1	50.0	Onshore Wind Turbine	WND	WT
2034	6	58944	Enerparc CA 1, LLC	IPP	Enerparc CA1 LLC	CA	59122	ECA11	1.5	Solar Photovoltaic	SUN	PV
2045		195	Alabama Power Co	Electric Utility	Holt Dam	AL	12	1	45.0	Conventional Hydroelectric	WAT	HY
2050	7	59381	EE Kettleman California LLC	IPP	Kettleman Solar -Centaurus	CA	59633	KS	20.0	Solar Photovoltaic	SUN	PV

NOTES:

Capacity from facilities with a total generator nameplate capacity less than 1 MW are excluded from this report. This exclusion may represent a signifciant portion of capacity for some technologies such as solar photovoltaic generation.

Entity ID and Plant ID are official, unique identification numbers assigned by EIA; Generator IDs are assigned by plant owners and/or operators.

Descriptions for the Energy Source Codes and the Prime Mover Codes listed in the table can be found in the Technical Notes.

Table 6.7.A. Capacity Factors for Utility Scale Generators Primarily Using Fossil Fuels, January 2013-November 2015

	Coal	Natural Gas				Petroleum		
Period		Natural Gas Fired Combined Cycle	Natural Gas Fired Combustion Turbine	Steam Turbine	Internal Combustion Engine	Steam Turbine	Petroleum Liquids Fired Combustion Turbine	Internal Combustion Engine
Annual Factors								
2013	59.7%	48.2%	4.9%	10.6%	6.1%	12.1%	0.8%	2.2%
2014	61.0%	48.3%	5.2%	10.4%	8.5%	12.5%	1.1%	1.4%
Year 2013								
January	61.2%	46.3%	3.6%	7.3%	4.6%	10.0%	0.7%	2.7%
February	60.6%	46.7%	3.4%	6.7%	4.7%	9.7%	0.4%	2.0%
March	57.7%	44.1%	4.0%	6.8%	5.7%	9.6%	0.3%	1.9%
April	51.3%	40.4%	4.3%	7.3%	6.1%	11.6%	0.6%	2.4%
May	52.9%	41.5%	4.5%	9.5%	5.2%	13.0%	0.7%	2.1%
June	63.4%	50.9%	5.1%	14.7%	6.9%	15.4%	0.8%	1.7%
July	67.9%	58.3%	8.5%	18.6%	8.4%	17.5%	2.1%	2.3%
August	66.3%	60.2%	6.8%	17.6%	8.5%	14.4%	0.9%	2.2%
Sept	61.2%	52.6%	5.6%	14.0%	6.7%	14.1%	1.3%	2.0%
October	54.4%	45.4%	3.9%	8.5%	5.5%	12.7%	0.7%	2.0%
November	56.2%	44.9%	3.9%	7.1%	4.5%	7.3%	0.6%	2.2%
December	63.7%	47.1%	4.6%	8.5%	6.1%	10.2%	0.7%	2.7%
Year 2014								
January	71.2%	47.2%	6.6%	10.0%	7.8%	19.5%	3.8%	2.3%
February	71.9%	42.5%	4.7%	9.2%	8.7%	12.0%	0.9%	1.5%
March	61.7%	39.7%	4.7%	7.2%	7.1%	13.7%	1.1%	1.4%
April	51.1%	40.3%	3.8%	7.2%	7.9%	9.4%	0.5%	1.0%
May	54.1%	45.0%	5.0%	9.8%	7.8%	10.2%	0.6%	1.6%
June	64.8%	51.1%	5.4%	11.8%	7.6%	14.8%	0.9%	1.3%
July	67.9%	57.7%	6.2%	15.2%	9.7%	15.0%	1.0%	1.5%
August	67.5%	61.0%	6.6%	16.9%	11.0%	14.4%	1.3%	1.5%
Sept	59.2%	55.4%	5.7%	12.7%	9.5%	13.5%	0.7%	1.4%
October	50.7%	49.0%	5.2%	10.6%	8.8%	8.6%	0.7%	1.3%
November	56.0%	43.7%	4.5%	7.6%	8.3%	7.7%	0.8%	1.2%
December	56.6%	46.2%	4.1%	5.9%	7.2%	10.7%	0.6%	1.1%
Year 2015								
January	62.0%	53.1%	4.0%	6.8%	NA	12.6%	0.6%	8.2%
February	65.4%	52.7%	6.0%	8.8%	NA	22.3%	1.7%	6.7%
March	50.6%	51.1%	4.9%	8.7%	NA	8.3%	0.7%	5.5%
April	42.9%	48.3%	5.6%	10.4%	NA	12.1%	1.1%	7.1%
May	49.8%	50.5%	6.9%	9.8%	NA	13.7%	1.4%	7.1%
June	62.5%	61.8%	8.3%	14.1%	NA	13.5%	1.3%	6.5%
July	66.7%	67.7%	10.7%	20.0%	NA	18.4%	1.6%	9.2%
August	64.7%	67.3%	8.7%	19.9%	NA	17.4%	1.5%	10.3%
Sept	58.5%	62.0%	7.9%	15.0%	NA	17.0%	1.5%	7.3%
October	46.8%	53.7%	6.4%	10.9%	NA	14.2%	1.2%	6.9%
November	43.6%	51.1%	6.5%	8.3%	NA	11.0%	2.4%	7.0%

Values for 2014 and prior years are final. Values for 2015 are preliminary. NA = Not Available

Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Table 6.7.B. Capacity Factors for Utility Scale Generators Not Primarily Using Fossil Fuels, January 2013-November 2015

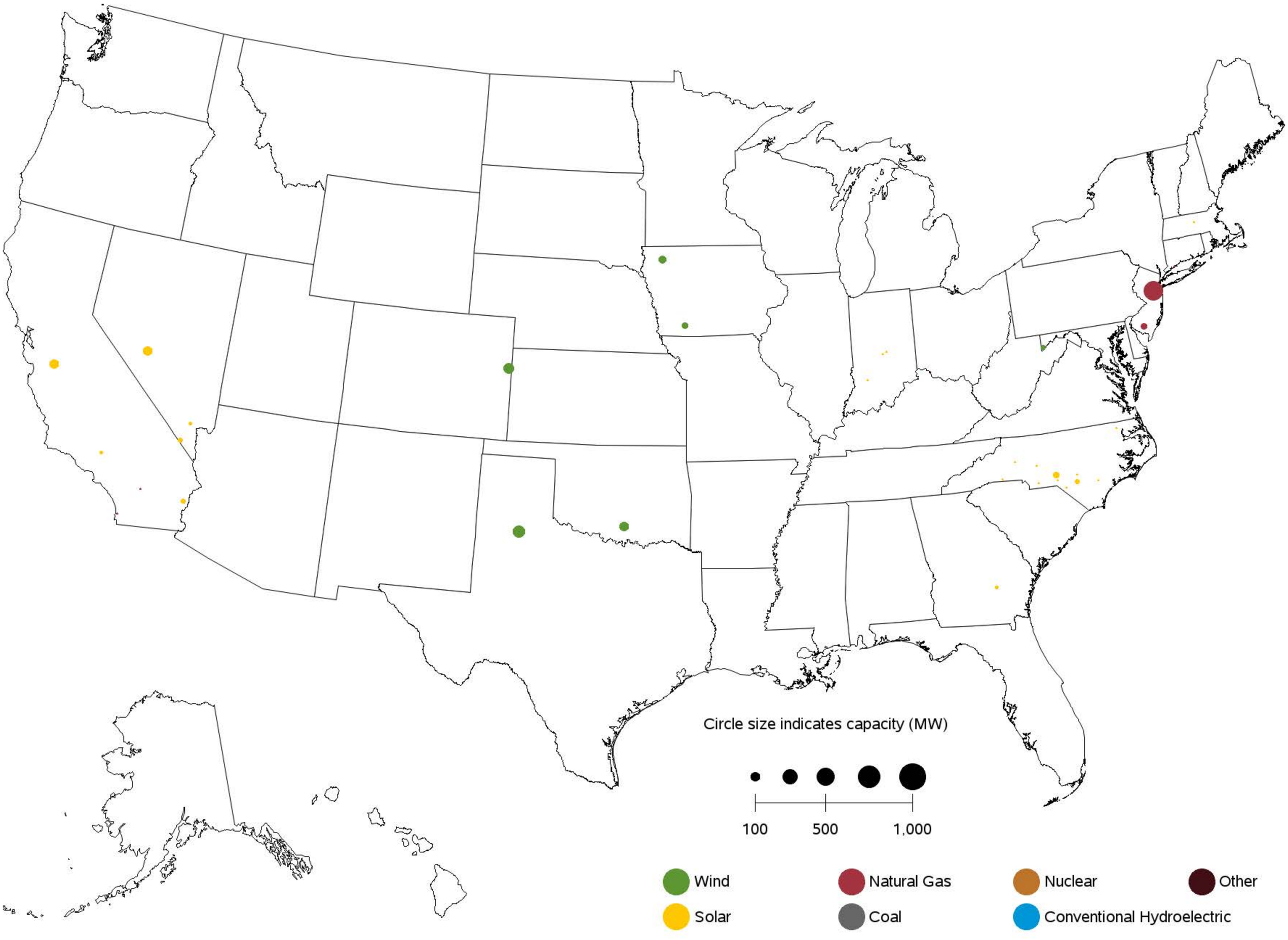
Period	Nuclear	Conventional Hydropower	Wind	Solar Photovoltaic	Solar Thermal	Landfill Gas and Muncipal Solid Waste	Other Biomass Including Wood	Geothermal
Annual Factors								
2013	89.9%	38.9%	32.4%	NA	NA	68.9%	56.7%	73.6%
2014	91.7%	37.3%	34.0%	25.9%	19.8%	68.9%	58.9%	74.0%
Year 2013								
January	93.9%	42.3%	33.5%	NA	NA	66.0%	56.5%	76.9%
February	90.3%	38.3%	35.4%	NA	NA	65.2%	56.0%	76.1%
March	83.4%	34.8%	35.9%	NA	NA	69.0%	55.4%	76.8%
April	77.6%	44.4%	41.1%	NA	NA	66.9%	44.8%	73.3%
May	83.3%	48.4%	37.0%	NA	NA	70.4%	50.5%	71.7%
June	93.1%	48.3%	32.4%	NA	NA	71.0%	54.8%	72.4%
July	95.6%	46.8%	25.3%	NA	NA	71.1%	58.2%	73.3%
August	96.7%	37.2%	22.0%	NA	NA	71.9%	64.8%	72.5%
Sept	92.2%	29.9%	27.4%	NA	NA	69.4%	61.1%	73.6%
October	85.7%	29.2%	31.0%	NA	NA	66.6%	57.9%	74.7%
November	91.0%	31.1%	37.0%	NA	NA	69.5%	61.0%	68.8%
December	96.6%	35.9%	31.3%	NA	NA	69.9%	59.0%	73.0%
Year 2014								
January	99.1%	36.7%	40.3%	NA	NA	68.1%	60.0%	74.0%
February	94.0%	32.6%	34.8%	NA	NA	68.3%	59.5%	73.3%
March	84.5%	40.7%	39.8%	NA	NA	69.6%	59.7%	73.5%
April	78.8%	44.5%	43.2%	NA	NA	69.9%	49.5%	74.6%
May	85.2%	44.6%	34.9%	NA	NA	70.6%	48.2%	73.2%
June	95.4%	44.8%	36.5%	NA	NA	70.8%	63.0%	73.4%
July	97.5%	41.3%	27.0%	NA	NA	73.1%	63.4%	72.5%
August	96.4%	33.7%	22.5%	30.9%	25.4%	71.1%	62.8%	73.0%
Sept	94.6%	28.2%	26.1%	30.7%	26.3%	68.9%	61.2%	74.2%
October	84.5%	29.2%	31.6%	26.5%	21.1%	64.4%	56.5%	73.9%
November	91.3%	32.6%	42.3%	22.3%	13.8%	66.1%	62.1%	77.3%
December	99.6%	37.8%	30.4%	15.1%	5.6%	65.4%	60.8%	75.5%
Year 2015								
January	101.3%	41.5%	31.7%	19.7%	5.1%	67.4%	54.1%	73.7%
February	95.8%	42.5%	34.4%	26.2%	15.9%	62.2%	57.3%	74.2%
March	88.0%	41.8%	31.7%	30.5%	24.2%	59.0%	49.4%	75.0%
April	84.2%	39.3%	37.8%	34.3%	32.5%	65.5%	40.7%	70.6%
May	89.8%	34.1%	35.2%	34.0%	31.1%	67.3%	46.9%	74.4%
June	96.4%	35.0%	28.3%	34.4%	34.5%	69.6%	53.1%	72.3%
July	97.2%	35.5%	27.7%	33.9%	35.1%	70.8%	58.5%	72.7%
August	98.6%	33.0%	26.0%	33.7%	32.8%	70.2%	59.8%	72.1%
Sept	93.5%	28.4%	28.2%	29.2%	27.5%	65.2%	50.8%	65.9%
October	82.5%	28.1%	31.9%	25.5%	16.7%	65.9%	45.5%	69.8%
November	84.8%	33.4%	39.1%	23.5%	17.1%	69.9%	49.0%	72.3%

Values for 2014 and prior years are final. Values for 2015 are preliminary. NA = Not Available

Notes: Solar Thermal Capacity Factors include generation from plants using concentrated solar power energy storage.

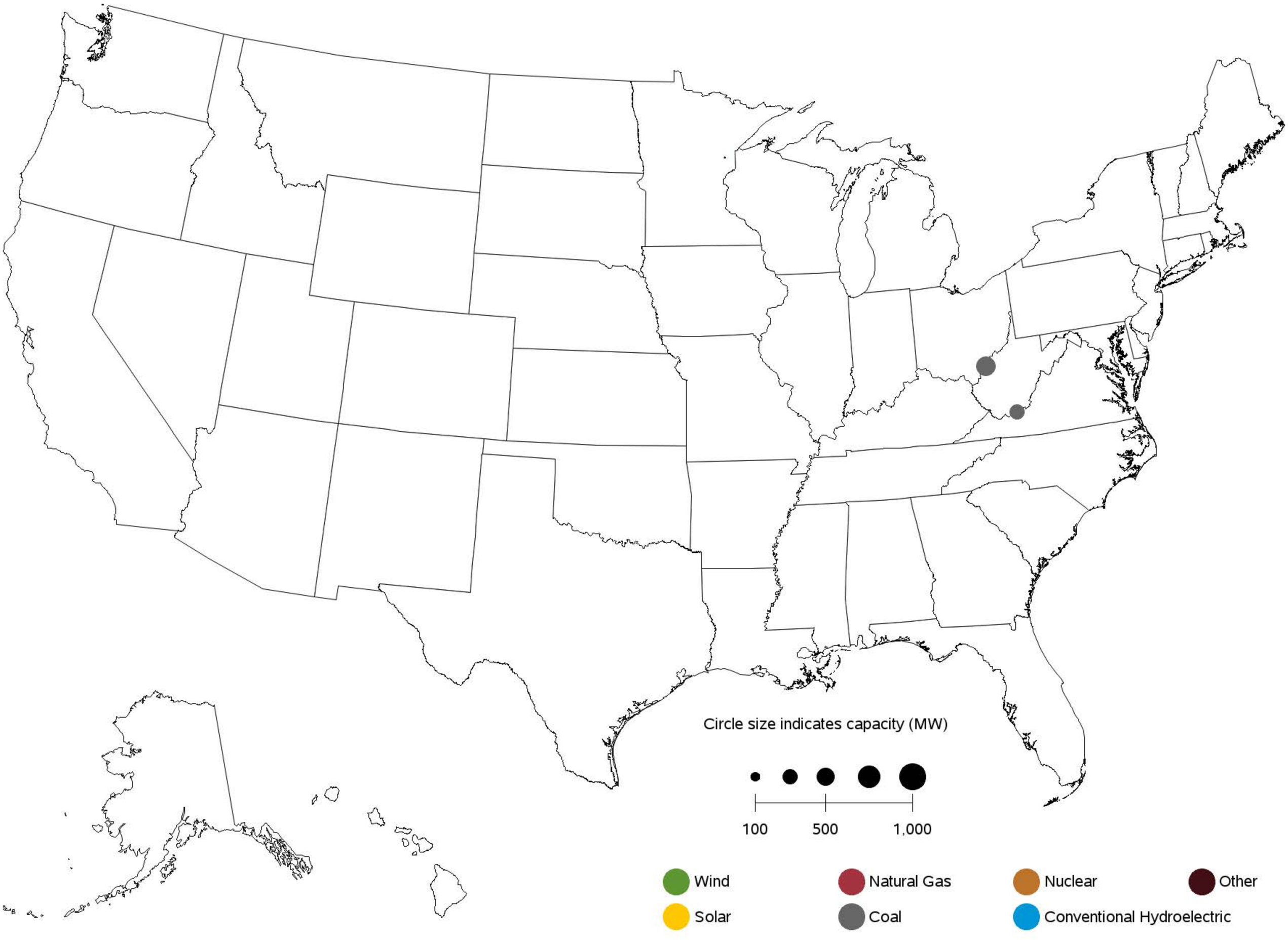
Sources: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report; U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.A. Utility-Scale Generating Units Added in November 2015



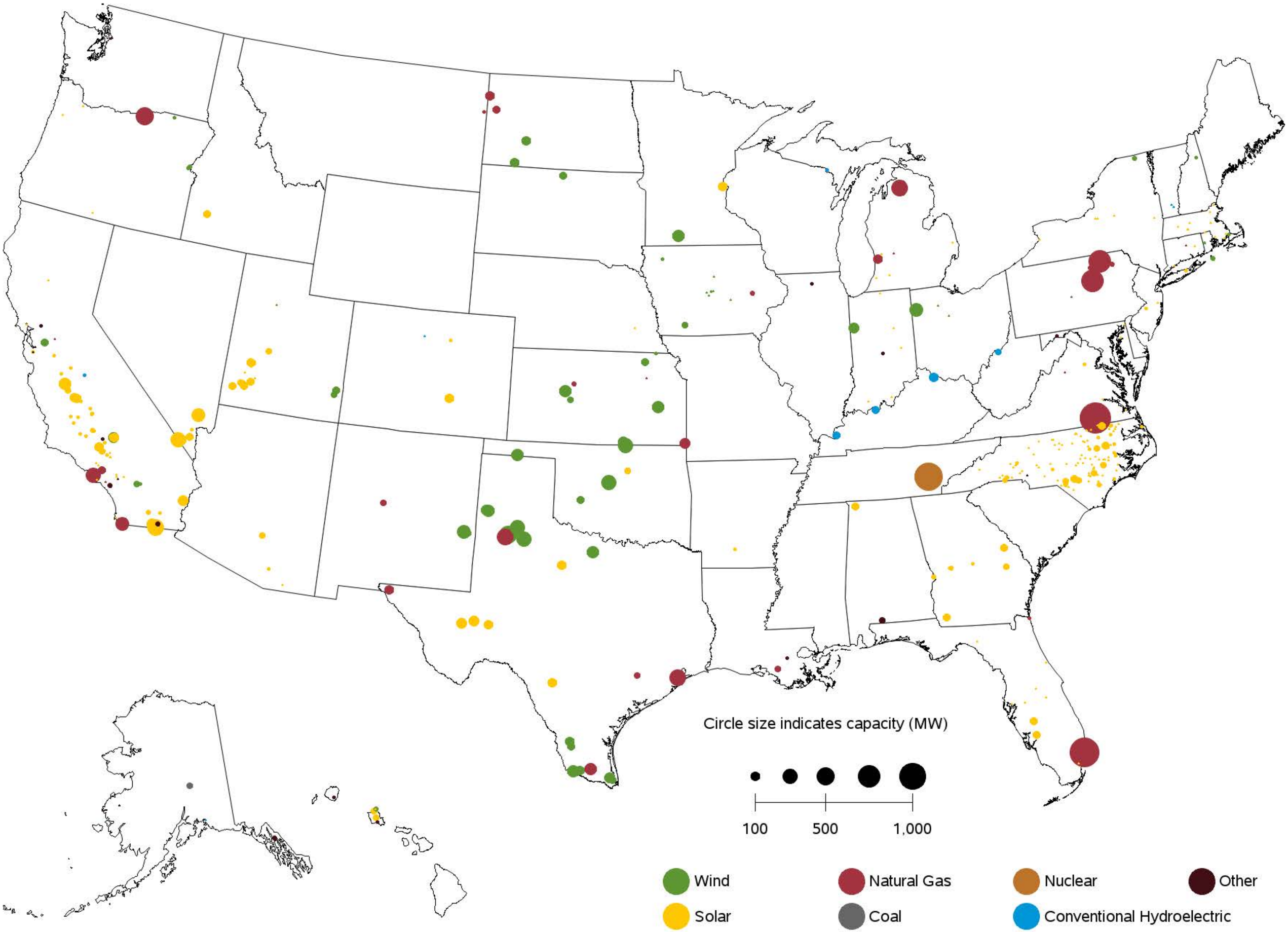
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.B. Utility-Scale Generating Units Retired in November 2015



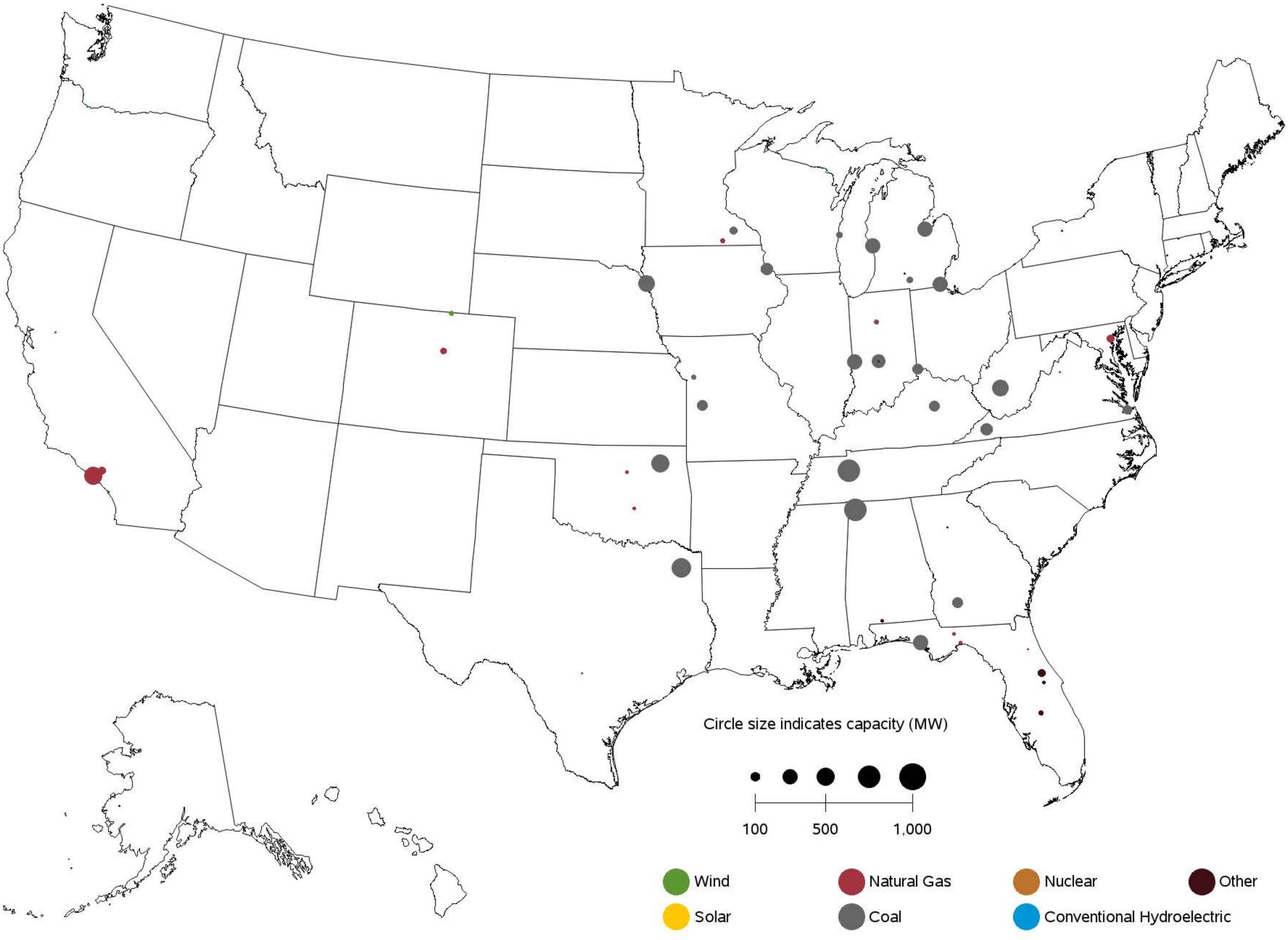
Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.C. Utility-Scale Generating Units Planned to Come Online from December 2015 to November 2016



Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Figure 6.1.D. Utility-Scale Generating Units Planned to Retire from December 2015 to November 2016



Sources: U.S. Energy Information Administration, Form EIA-860, 'Annual Electric Generator Report' and Form EIA-860M, 'Monthly Update to the Annual Electric Generator Report.'

Table A.1.A. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Total (All Sectors) by Census Division and State, November 2015

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**1**	**15**	**0**	**2**	**0**	**0**	**10**
Connecticut	0	43	0	2	0	0	44
Maine	0	31	0	6	0	0	14
Massachusetts	1	31	0	4	0	0	27
New Hampshire	0	24	0	1	0	0	19
Rhode Island	0	24	0	11	0	0	440
Vermont	0	450	0	0	0	0	27
Middle Atlantic	**2**	**18**	**193**	**1**	**52**	**0**	**3**
New Jersey	0	31	0	2	181	0	197
New York	9	28	0	2	0	0	3
Pennsylvania	3	24	191	1	31	0	12
East North Central	**0**	**3**	**5**	**1**	**33**	**0**	**12**
Illinois	0	3	0	4	122	0	63
Indiana	0	6	0	2	29	0	15
Michigan	2	9	70	3	0	0	25
Ohio	1	2	0	1	79	0	22
Wisconsin	0	29	0	2	0	0	21
West North Central	**1**	**15**	**187**	**7**	**340**	**0**	**5**
Iowa	4	22	187	21	0	0	34
Kansas	0	4	0	47	0	0	212
Minnesota	3	116	0	4	0	0	41
Missouri	0	2	0	12	0	0	12
Nebraska	3	33	0	22	0	0	30
North Dakota	2	19	0	56	340	0	0
South Dakota	0	77	0	16	0	0	0
South Atlantic	**0**	**3**	**0**	**1**	**0**	**0**	**4**
Delaware	0	21	0	7	0	0	0
District of Columbia	0	0	0	114	0	0	0
Florida	1	3	0	1	0	0	63
Georgia	1	21	0	1	0	0	10
Maryland	0	18	0	7	0	0	4
North Carolina	1	11	0	7	0	0	6
South Carolina	0	15	0	1	0	0	8
Virginia	1	4	0	1	0	0	29
West Virginia	0	0	0	1	0	0	15
East South Central	**0**	**11**	**0**	**1**	**86**	**0**	**3**
Alabama	0	51	0	2	144	0	4
Kentucky	1	2	0	3	0	0	7
Mississippi	0	32	0	1	0	0	0
Tennessee	0	5	0	1	0	0	6
West South Central	**0**	**12**	**16**	**1**	**3**	**0**	**8**
Arkansas	0	0	0	3	0	0	11
Louisiana	0	1	16	1	4	0	0
Oklahoma	1	108	0	1	0	0	14
Texas	0	29	83	1	4	0	31
Mountain	**1**	**9**	**0**	**1**	**22**	**0**	**4**
Arizona	0	6	0	0	0	0	2
Colorado	0	75	0	1	0	0	31
Idaho	74	11,009	0	3	0	0	9
Montana	5	65	0	37	0	0	5
Nevada	0	1	0	1	0	0	3
New Mexico	0	19	0	4	0	0	119
Utah	1	16	0	4	0	0	43
Wyoming	3	8	0	20	24	0	17
Pacific Contiguous	**0**	**15**	**0**	**1**	**4**	**0**	**1**
California	0	23	0	1	6	0	7
Oregon	0	13	0	1	0	0	2
Washington	0	23	0	2	0	0	1
Pacific Noncontiguous	**5**	**2**	**0**	**12**	**61**	**0**	**13**
Alaska	11	5	0	12	0	0	14
Hawaii	4	2	0	0	61	0	52
U.S. Total	**0**	**2**	**5**	**0**	**9**	**0**	**1**

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.1.A. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Total (All Sectors) by Census Division and State, November 2015 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**13**	**4**	**0**	**5**	**1**
Connecticut	0	0	0	75	4	0	5	1
Maine	0	0	0	0	1	0	19	4
Massachusetts	0	0	0	14	8	0	5	2
New Hampshire	0	0	0	0	16	0	29	3
Rhode Island	0	0	0	82	10	0	0	11
Vermont	0	0	0	44	16	0	0	17
Middle Atlantic	**0**	**0**	**0**	**11**	**1**	**0**	**5**	**1**
New Jersey	0	0	0	12	6	0	5	1
New York	0	0	0	26	2	0	9	1
Pennsylvania	0	0	0	33	2	0	7	1
East North Central	**0**	**0**	**0**	**17**	**1**	**0**	**9**	**0**
Illinois	0	0	0	39	0	0	33	0
Indiana	0	0	0	22	1	0	4	1
Michigan	0	0	0	179	3	0	11	1
Ohio	0	0	0	36	3	0	0	1
Wisconsin	0	0	0	232	5	0	53	1
West North Central	**0**	**0**	**0**	**67**	**0**	**0**	**12**	**1**
Iowa	0	0	0	0	0	0	0	2
Kansas	0	0	0	254	0	0	325	1
Minnesota	0	0	0	170	2	0	14	2
Missouri	0	0	0	75	2	0	0	1
Nebraska	0	0	0	0	1	0	0	2
North Dakota	0	0	0	0	1	0	42	2
South Dakota	0	0	0	0	1	0	0	1
South Atlantic	**0**	**0**	**0**	**7**	**2**	**0**	**4**	**0**
Delaware	0	0	0	40	21	0	0	6
District of Columbia	0	0	0	0	0	0	0	114
Florida	0	0	0	16	4	0	5	1
Georgia	0	0	0	23	4	0	0	0
Maryland	0	0	0	24	3	0	2	1
North Carolina	0	0	0	8	5	0	27	2
South Carolina	0	0	0	135	8	0	32	1
Virginia	0	0	0	0	2	0	8	1
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**36**	**4**	**0**	**10**	**0**
Alabama	0	0	0	0	7	0	0	1
Kentucky	0	0	0	0	4	0	0	1
Mississippi	0	0	0	0	4	0	258	1
Tennessee	0	0	0	36	10	0	0	1
West South Central	**0**	**0**	**0**	**12**	**0**	**0**	**11**	**0**
Arkansas	0	0	0	0	3	0	0	1
Louisiana	0	0	0	0	7	0	12	1
Oklahoma	0	0	0	0	0	0	127	1
Texas	0	0	0	12	0	0	14	0
Mountain	**0**	**7**	**0**	**2**	**1**	**0**	**7**	**1**
Arizona	0	0	0	3	2	0	0	0
Colorado	0	0	0	14	1	0	87	1
Idaho	0	72	0	0	5	0	0	4
Montana	0	0	0	0	3	0	0	3
Nevada	0	8	0	4	5	0	85	1
New Mexico	0	189	0	11	3	0	0	1
Utah	0	16	0	51	8	0	6	1
Wyoming	0	0	0	0	1	0	0	2
Pacific Contiguous	**0**	**6**	**0**	**2**	**2**	**0**	**12**	**1**
California	0	6	0	2	2	0	13	1
Oregon	0	12	0	59	3	0	31	1
Washington	0	0	0	0	1	0	26	1
Pacific Noncontiguous	**0**	**0**	**0**	**37**	**5**	**0**	**0**	**3**
Alaska	0	0	0	0	23	0	0	7
Hawaii	0	0	0	37	5	0	0	2
U.S. Total	**0**	**5**	**0**	**2**	**1**	**0**	**3**	**0**

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.1.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Total (All Sectors) by Census Division and State, Year-to-Date through November 2015

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**1**	**15**	**0**	**2**	**0**	**0**	**10**
Connecticut	0	43	0	2	0	0	44
Maine	0	31	0	6	0	0	14
Massachusetts	1	31	0	4	0	0	27
New Hampshire	0	24	0	1	0	0	19
Rhode Island	0	24	0	11	0	0	440
Vermont	0	450	0	0	0	0	27
Middle Atlantic	**2**	**18**	**193**	**1**	**52**	**0**	**3**
New Jersey	0	31	0	2	181	0	197
New York	9	28	0	2	0	0	3
Pennsylvania	3	24	191	1	31	0	12
East North Central	**0**	**3**	**5**	**1**	**33**	**0**	**12**
Illinois	0	3	0	4	122	0	63
Indiana	0	6	0	2	29	0	15
Michigan	2	9	70	3	0	0	25
Ohio	1	2	0	1	79	0	22
Wisconsin	0	29	0	2	0	0	21
West North Central	**1**	**15**	**187**	**7**	**340**	**0**	**5**
Iowa	4	22	187	21	0	0	34
Kansas	0	4	0	47	0	0	212
Minnesota	3	116	0	4	0	0	41
Missouri	0	2	0	12	0	0	12
Nebraska	3	33	0	22	0	0	30
North Dakota	2	19	0	56	340	0	0
South Dakota	0	77	0	16	0	0	0
South Atlantic	**0**	**3**	**0**	**1**	**0**	**0**	**4**
Delaware	0	21	0	7	0	0	0
District of Columbia	0	0	0	114	0	0	0
Florida	1	3	0	1	0	0	63
Georgia	1	21	0	1	0	0	10
Maryland	0	18	0	7	0	0	4
North Carolina	1	11	0	7	0	0	6
South Carolina	0	15	0	1	0	0	8
Virginia	1	4	0	1	0	0	29
West Virginia	0	0	0	1	0	0	15
East South Central	**0**	**11**	**0**	**1**	**86**	**0**	**3**
Alabama	0	51	0	2	144	0	4
Kentucky	1	2	0	3	0	0	7
Mississippi	0	32	0	1	0	0	0
Tennessee	0	5	0	1	0	0	6
West South Central	**0**	**12**	**16**	**1**	**3**	**0**	**8**
Arkansas	0	0	0	3	0	0	11
Louisiana	0	1	16	1	4	0	0
Oklahoma	1	108	0	1	0	0	14
Texas	0	29	83	1	4	0	31
Mountain	**1**	**9**	**0**	**1**	**22**	**0**	**4**
Arizona	0	6	0	0	0	0	2
Colorado	0	75	0	1	0	0	31
Idaho	74	11,009	0	3	0	0	9
Montana	5	65	0	37	0	0	5
Nevada	0	1	0	1	0	0	3
New Mexico	0	19	0	4	0	0	119
Utah	1	16	0	4	0	0	43
Wyoming	3	8	0	20	24	0	17
Pacific Contiguous	**0**	**15**	**0**	**1**	**4**	**0**	**1**
California	0	23	0	1	6	0	7
Oregon	0	13	0	1	0	0	2
Washington	0	23	0	2	0	0	1
Pacific Noncontiguous	**5**	**2**	**0**	**12**	**61**	**0**	**13**
Alaska	11	5	0	12	0	0	14
Hawaii	4	2	0	0	61	0	52
U.S. Total	**0**	**2**	**5**	**0**	**9**	**0**	**1**

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.1.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Total (All Sectors) by Census Division and State, Year-to-Date through November 2015 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**13**	**4**	**0**	**5**	**1**
Connecticut	0	0	0	75	4	0	5	1
Maine	0	0	0	0	1	0	19	4
Massachusetts	0	0	0	14	8	0	5	2
New Hampshire	0	0	0	0	16	0	29	3
Rhode Island	0	0	0	82	10	0	0	11
Vermont	0	0	0	44	16	0	0	17
Middle Atlantic	**0**	**0**	**0**	**11**	**1**	**0**	**5**	**1**
New Jersey	0	0	0	12	6	0	5	1
New York	0	0	0	26	2	0	9	1
Pennsylvania	0	0	0	33	2	0	7	1
East North Central	**0**	**0**	**0**	**17**	**1**	**0**	**9**	**0**
Illinois	0	0	0	39	0	0	33	0
Indiana	0	0	0	22	1	0	4	1
Michigan	0	0	0	179	3	0	11	1
Ohio	0	0	0	36	3	0	0	1
Wisconsin	0	0	0	232	5	0	53	1
West North Central	**0**	**0**	**0**	**67**	**0**	**0**	**12**	**1**
Iowa	0	0	0	0	0	0	0	2
Kansas	0	0	0	254	0	0	325	1
Minnesota	0	0	0	170	2	0	14	2
Missouri	0	0	0	75	2	0	0	1
Nebraska	0	0	0	0	1	0	0	2
North Dakota	0	0	0	0	1	0	42	2
South Dakota	0	0	0	0	1	0	0	1
South Atlantic	**0**	**0**	**0**	**7**	**2**	**0**	**4**	**0**
Delaware	0	0	0	40	21	0	0	6
District of Columbia	0	0	0	0	0	0	0	114
Florida	0	0	0	16	4	0	5	1
Georgia	0	0	0	23	4	0	0	0
Maryland	0	0	0	24	3	0	2	1
North Carolina	0	0	0	8	5	0	27	2
South Carolina	0	0	0	135	8	0	32	1
Virginia	0	0	0	0	2	0	8	1
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**36**	**4**	**0**	**10**	**0**
Alabama	0	0	0	0	7	0	0	1
Kentucky	0	0	0	0	4	0	0	1
Mississippi	0	0	0	0	4	0	258	1
Tennessee	0	0	0	36	10	0	0	1
West South Central	**0**	**0**	**0**	**12**	**0**	**0**	**11**	**0**
Arkansas	0	0	0	0	3	0	0	1
Louisiana	0	0	0	0	7	0	12	1
Oklahoma	0	0	0	0	0	0	127	1
Texas	0	0	0	12	0	0	14	0
Mountain	**0**	**7**	**0**	**2**	**1**	**0**	**7**	**1**
Arizona	0	0	0	3	2	0	0	0
Colorado	0	0	0	14	1	0	87	1
Idaho	0	72	0	0	5	0	0	4
Montana	0	0	0	0	3	0	0	3
Nevada	0	8	0	4	5	0	85	1
New Mexico	0	189	0	11	3	0	0	1
Utah	0	16	0	51	8	0	6	1
Wyoming	0	0	0	0	1	0	0	2
Pacific Contiguous	**0**	**6**	**0**	**2**	**2**	**0**	**12**	**1**
California	0	6	0	2	2	0	13	1
Oregon	0	12	0	59	3	0	31	1
Washington	0	0	0	0	1	0	26	1
Pacific Noncontiguous	**0**	**0**	**0**	**37**	**5**	**0**	**0**	**3**
Alaska	0	0	0	0	23	0	0	7
Hawaii	0	0	0	37	5	0	0	2
U.S. Total	**0**	**5**	**0**	**2**	**1**	**0**	**3**	**0**

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.2.A. Relative Standard Error (Percent) for Net Generation by Fuel Type: Electric Utilities by Census Division and State, November 2015

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**7**	**0**	**10**	**0**	**0**	**26**
Connecticut	0	31	0	0	0	0	155
Maine	0	179	0	0	0	0	0
Massachusetts	0	21	0	12	0	0	66
New Hampshire	0	4	0	0	0	0	26
Rhode Island	0	22	0	0	0	0	0
Vermont	0	239	0	0	0	0	44
Middle Atlantic	**0**	**38**	**0**	**7**	**0**	**0**	**1**
New Jersey	0	534	0	200	0	0	0
New York	0	39	0	7	0	0	1
Pennsylvania	0	67	0	638	0	0	102
East North Central	**1**	**5**	**0**	**1**	**0**	**0**	**13**
Illinois	0	8	0	56	0	0	133
Indiana	0	4	0	2	0	0	15
Michigan	2	9	0	5	0	0	27
Ohio	2	1	0	3	0	0	11
Wisconsin	0	30	0	1	0	0	22
West North Central	**1**	**7**	**0**	**7**	**0**	**0**	**5**
Iowa	4	22	0	15	0	0	34
Kansas	0	4	0	52	0	0	0
Minnesota	3	37	0	3	0	0	55
Missouri	0	2	0	16	0	0	12
Nebraska	3	33	0	22	0	0	30
North Dakota	2	19	0	59	0	0	0
South Dakota	0	78	0	16	0	0	0
South Atlantic	**0**	**2**	**0**	**1**	**0**	**0**	**4**
Delaware	0	295	0	308	0	0	0
Florida	0	2	0	1	0	0	63
Georgia	0	13	0	1	0	0	9
Maryland	0	24	0	0	0	0	0
North Carolina	0	9	0	8	0	0	6
South Carolina	0	15	0	1	0	0	8
Virginia	0	10	0	0	0	0	29
West Virginia	0	0	0	0	0	0	47
East South Central	**0**	**2**	**0**	**2**	**0**	**0**	**3**
Alabama	0	0	0	6	0	0	4
Kentucky	1	2	0	2	0	0	7
Mississippi	0	34	0	1	0	0	0
Tennessee	0	1	0	0	0	0	6
West South Central	**0**	**10**	**0**	**1**	**0**	**0**	**9**
Arkansas	0	0	0	8	0	0	11
Louisiana	0	1	0	1	0	0	0
Oklahoma	0	6	0	1	0	0	14
Texas	0	33	0	3	0	0	31
Mountain	**1**	**9**	**0**	**1**	**0**	**0**	**3**
Arizona	0	6	0	0	0	0	2
Colorado	0	75	0	0	0	0	34
Idaho	0	11,009	0	3	0	0	9
Montana	144	99	0	39	0	0	5
Nevada	0	1	0	0	0	0	2
New Mexico	0	19	0	8	0	0	119
Utah	0	1	0	2	0	0	43
Wyoming	2	3	0	138	0	0	16
Pacific Contiguous	**0**	**12**	**0**	**2**	**0**	**0**	**1**
California	0	12	0	3	0	0	6
Oregon	0	0	0	0	0	0	2
Washington	0	78	0	2	0	0	1
Pacific Noncontiguous	**0**	**1**	**0**	**12**	**0**	**0**	**14**
Alaska	0	5	0	12	0	0	14
Hawaii	0	1	0	0	0	0	206
U.S. Total	**0**	**1**	**0**	**1**	**0**	**0**	**1**

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.2.A. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Electric Utilities by Census Division and State, November 2015 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**75**	**4**	**0**	**0**	**11**
Connecticut	0	0	0	0	0	0	0	135
Maine	0	0	0	0	0	0	0	179
Massachusetts	0	0	0	75	42	0	0	30
New Hampshire	0	0	0	0	0	0	0	10
Rhode Island	0	0	0	0	0	0	0	22
Vermont	0	0	0	0	0	0	0	20
Middle Atlantic	**0**	**0**	**0**	**35**	**6**	**0**	**0**	**2**
New Jersey	0	0	0	35	35	0	0	41
New York	0	0	0	0	0	0	0	2
Pennsylvania	0	0	0	0	0	0	0	112
East North Central	**0**	**0**	**0**	**53**	**1**	**0**	**24**	**1**
Illinois	0	0	0	463	97	0	0	3
Indiana	0	0	0	70	11	0	0	0
Michigan	0	0	0	179	1	0	55	1
Ohio	0	0	0	88	57	0	0	2
Wisconsin	0	0	0	0	0	0	0	1
West North Central	**0**	**0**	**0**	**0**	**1**	**0**	**5**	**1**
Iowa	0	0	0	0	0	0	0	2
Kansas	0	0	0	0	0	0	0	2
Minnesota	0	0	0	0	4	0	0	2
Missouri	0	0	0	0	27	0	0	1
Nebraska	0	0	0	0	9	0	0	2
North Dakota	0	0	0	0	2	0	42	2
South Dakota	0	0	0	0	1	0	0	2
South Atlantic	**0**	**0**	**0**	**17**	**2**	**0**	**0**	**0**
Delaware	0	0	0	111	111	0	0	262
Florida	0	0	0	0	2	0	0	1
Georgia	0	0	0	108	108	0	0	0
Maryland	0	0	0	95	95	0	0	46
North Carolina	0	0	0	48	48	0	0	2
South Carolina	0	0	0	0	4	0	0	1
Virginia	0	0	0	0	0	0	0	0
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**0**	**28**	**0**	**0**	**0**
Alabama	0	0	0	0	773	0	0	1
Kentucky	0	0	0	0	20	0	0	1
Mississippi	0	0	0	0	0	0	0	1
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**
Arkansas	0	0	0	0	0	0	0	1
Louisiana	0	0	0	0	0	0	0	1
Oklahoma	0	0	0	0	0	0	0	1
Texas	0	0	0	0	0	0	0	1
Mountain	**0**	**0**	**0**	**11**	**2**	**0**	**87**	**0**
Arizona	0	0	0	11	11	0	0	0
Colorado	0	0	0	0	9	0	0	1
Idaho	0	0	0	0	3	0	0	7
Montana	0	0	0	0	0	0	0	7
Nevada	0	0	0	66	66	0	85	0
New Mexico	0	0	0	28	28	0	0	1
Utah	0	0	0	0	0	0	0	1
Wyoming	0	0	0	0	1	0	0	2
Pacific Contiguous	**0**	**4**	**0**	**14**	**1**	**0**	**0**	**1**
California	0	0	0	14	4	0	0	2
Oregon	0	218	0	113	4	0	0	1
Washington	0	0	0	0	0	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**52**	**25**	**0**	**0**	**4**
Alaska	0	0	0	0	36	0	0	7
Hawaii	0	0	0	52	28	0	0	2
U.S. Total	**0**	**3**	**0**	**8**	**0**	**0**	**3**	**0**

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.2.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Electric Utilities by Census Division and State, Year-to-Date through November 2015

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**7**	**0**	**10**	**0**	**0**	**26**
Connecticut	0	31	0	0	0	0	155
Maine	0	179	0	0	0	0	0
Massachusetts	0	21	0	12	0	0	66
New Hampshire	0	4	0	0	0	0	26
Rhode Island	0	22	0	0	0	0	0
Vermont	0	239	0	0	0	0	44
Middle Atlantic	**0**	**38**	**0**	**7**	**0**	**0**	**1**
New Jersey	0	534	0	200	0	0	0
New York	0	39	0	7	0	0	1
Pennsylvania	0	67	0	638	0	0	102
East North Central	**1**	**5**	**0**	**1**	**0**	**0**	**13**
Illinois	0	8	0	56	0	0	133
Indiana	0	4	0	2	0	0	15
Michigan	2	9	0	5	0	0	27
Ohio	2	1	0	3	0	0	11
Wisconsin	0	30	0	1	0	0	22
West North Central	**1**	**7**	**0**	**7**	**0**	**0**	**5**
Iowa	4	22	0	15	0	0	34
Kansas	0	4	0	52	0	0	0
Minnesota	3	37	0	3	0	0	55
Missouri	0	2	0	16	0	0	12
Nebraska	3	33	0	22	0	0	30
North Dakota	2	19	0	59	0	0	0
South Dakota	0	78	0	16	0	0	0
South Atlantic	**0**	**2**	**0**	**1**	**0**	**0**	**4**
Delaware	0	295	0	308	0	0	0
Florida	0	2	0	1	0	0	63
Georgia	0	13	0	1	0	0	9
Maryland	0	24	0	0	0	0	0
North Carolina	0	9	0	8	0	0	6
South Carolina	0	15	0	1	0	0	8
Virginia	0	10	0	0	0	0	29
West Virginia	0	0	0	0	0	0	47
East South Central	**0**	**2**	**0**	**2**	**0**	**0**	**3**
Alabama	0	0	0	6	0	0	4
Kentucky	1	2	0	2	0	0	7
Mississippi	0	34	0	1	0	0	0
Tennessee	0	1	0	0	0	0	6
West South Central	**0**	**10**	**0**	**1**	**0**	**0**	**9**
Arkansas	0	0	0	8	0	0	11
Louisiana	0	1	0	1	0	0	0
Oklahoma	0	6	0	1	0	0	14
Texas	0	33	0	3	0	0	31
Mountain	**1**	**9**	**0**	**1**	**0**	**0**	**3**
Arizona	0	6	0	0	0	0	2
Colorado	0	75	0	0	0	0	34
Idaho	0	11,009	0	3	0	0	9
Montana	144	99	0	39	0	0	5
Nevada	0	1	0	0	0	0	2
New Mexico	0	19	0	8	0	0	119
Utah	0	1	0	2	0	0	43
Wyoming	2	3	0	138	0	0	16
Pacific Contiguous	**0**	**12**	**0**	**2**	**0**	**0**	**1**
California	0	12	0	3	0	0	6
Oregon	0	0	0	0	0	0	2
Washington	0	78	0	2	0	0	1
Pacific Noncontiguous	**0**	**1**	**0**	**12**	**0**	**0**	**14**
Alaska	0	5	0	12	0	0	14
Hawaii	0	1	0	0	0	0	206
U.S. Total	**0**	**1**	**0**	**1**	**0**	**0**	**1**

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.2.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Electric Utilities by Census Division and State, Year-to-Date through November 2015 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**75**	**4**	**0**	**0**	**11**
Connecticut	0	0	0	0	0	0	0	135
Maine	0	0	0	0	0	0	0	179
Massachusetts	0	0	0	75	42	0	0	30
New Hampshire	0	0	0	0	0	0	0	10
Rhode Island	0	0	0	0	0	0	0	22
Vermont	0	0	0	0	0	0	0	20
Middle Atlantic	**0**	**0**	**0**	**35**	**6**	**0**	**0**	**2**
New Jersey	0	0	0	35	35	0	0	41
New York	0	0	0	0	0	0	0	2
Pennsylvania	0	0	0	0	0	0	0	112
East North Central	**0**	**0**	**0**	**53**	**1**	**0**	**24**	**1**
Illinois	0	0	0	463	97	0	0	3
Indiana	0	0	0	70	11	0	0	0
Michigan	0	0	0	179	1	0	55	1
Ohio	0	0	0	88	57	0	0	2
Wisconsin	0	0	0	0	0	0	0	1
West North Central	**0**	**0**	**0**	**0**	**1**	**0**	**5**	**1**
Iowa	0	0	0	0	0	0	0	2
Kansas	0	0	0	0	0	0	0	2
Minnesota	0	0	0	0	4	0	0	2
Missouri	0	0	0	0	27	0	0	1
Nebraska	0	0	0	0	9	0	0	2
North Dakota	0	0	0	0	2	0	42	2
South Dakota	0	0	0	0	1	0	0	2
South Atlantic	**0**	**0**	**0**	**17**	**2**	**0**	**0**	**0**
Delaware	0	0	0	111	111	0	0	262
Florida	0	0	0	0	2	0	0	1
Georgia	0	0	0	108	108	0	0	0
Maryland	0	0	0	95	95	0	0	46
North Carolina	0	0	0	48	48	0	0	2
South Carolina	0	0	0	0	4	0	0	1
Virginia	0	0	0	0	0	0	0	0
West Virginia	0	0	0	0	0	0	0	0
East South Central	**0**	**0**	**0**	**0**	**28**	**0**	**0**	**0**
Alabama	0	0	0	0	773	0	0	1
Kentucky	0	0	0	0	20	0	0	1
Mississippi	0	0	0	0	0	0	0	1
Tennessee	0	0	0	0	0	0	0	1
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**
Arkansas	0	0	0	0	0	0	0	1
Louisiana	0	0	0	0	0	0	0	1
Oklahoma	0	0	0	0	0	0	0	1
Texas	0	0	0	0	0	0	0	1
Mountain	**0**	**0**	**0**	**11**	**2**	**0**	**87**	**0**
Arizona	0	0	0	11	11	0	0	0
Colorado	0	0	0	0	9	0	0	1
Idaho	0	0	0	0	3	0	0	7
Montana	0	0	0	0	0	0	0	7
Nevada	0	0	0	66	66	0	85	0
New Mexico	0	0	0	28	28	0	0	1
Utah	0	0	0	0	0	0	0	1
Wyoming	0	0	0	0	1	0	0	2
Pacific Contiguous	**0**	**4**	**0**	**14**	**1**	**0**	**0**	**1**
California	0	0	0	14	4	0	0	2
Oregon	0	218	0	113	4	0	0	1
Washington	0	0	0	0	0	0	0	1
Pacific Noncontiguous	**0**	**0**	**0**	**52**	**25**	**0**	**0**	**4**
Alaska	0	0	0	0	36	0	0	7
Hawaii	0	0	0	52	28	0	0	2
U.S. Total	**0**	**3**	**0**	**8**	**0**	**0**	**3**	**0**

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.3.A. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Independent Power Producers by Census Division and State, November 2015

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**14**	**0**	**2**	**0**	**0**	**11**
Connecticut	0	51	0	2	0	0	46
Maine	0	6	0	1	0	0	15
Massachusetts	0	27	0	4	0	0	29
New Hampshire	0	18	0	0	0	0	24
Rhode Island	0	0	0	11	0	0	440
Vermont	0	0	0	0	0	0	33
Middle Atlantic	**2**	**22**	**0**	**1**	**0**	**0**	**10**
New Jersey	0	28	0	2	0	0	197
New York	13	69	0	2	0	0	13
Pennsylvania	3	25	0	1	0	0	12
East North Central	**0**	**2**	**0**	**1**	**86**	**0**	**39**
Illinois	0	0	0	3	0	0	59
Indiana	1	5,978	0	4	0	0	0
Michigan	10	22,961	0	3	0	0	94
Ohio	0	0	0	1	89	0	59
Wisconsin	0	381	0	0	0	0	101
West North Central	**114**	**915**	**0**	**10**	**0**	**0**	**67**
Iowa	0	84	0	0	0	0	394
Kansas	0	0	0	0	0	0	212
Minnesota	0	1,124	0	45	0	0	71
Missouri	114	0	0	7	0	0	0
South Dakota	0	306	0	0	0	0	0
South Atlantic	**1**	**5**	**0**	**1**	**0**	**0**	**8**
Delaware	0	20	0	8	0	0	0
Florida	0	520	0	4	0	0	0
Georgia	0	19	0	2	0	0	260
Maryland	0	20	0	6	0	0	4
North Carolina	160	130	0	0	0	0	119
South Carolina	0	450	0	6	0	0	105
Virginia	0	2	0	2	0	0	113
West Virginia	1	0	0	1	0	0	6
East South Central	**0**	**57**	**0**	**0**	**0**	**0**	**329**
Alabama	0	90	0	0	0	0	0
Kentucky	0	0	0	0	0	0	329
Mississippi	0	0	0	0	0	0	0
Tennessee	0	74	0	703	0	0	0
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**13**
Arkansas	0	0	0	0	0	0	191
Louisiana	0	0	0	0	0	0	0
Oklahoma	0	0	0	1	0	0	0
Texas	0	0	0	1	0	0	157
Mountain	**5**	**35**	**0**	**2**	**0**	**0**	**34**
Arizona	0	0	0	0	0	0	0
Colorado	143	0	0	5	0	0	78
Idaho	0	0	0	5	0	0	45
Montana	4	17	0	132	0	0	81
Nevada	0	0	0	9	0	0	171
New Mexico	0	0	0	2	0	0	0
Utah	133	650	0	68	0	0	389
Wyoming	87	0	0	412	0	0	340
Pacific Contiguous	**0**	**30**	**0**	**1**	**0**	**0**	**32**
California	0	91	0	1	0	0	55
Oregon	0	0	0	1	0	0	57
Washington	0	5	0	0	0	0	53
Pacific Noncontiguous	**5**	**2**	**0**	**0**	**0**	**0**	**0**
Alaska	44	0	0	0	0	0	0
Hawaii	0	2	0	0	0	0	0
U.S. Total	**1**	**4**	**0**	**0**	**18**	**0**	**6**

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.3.A. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Independent Power Producers by Census Division and State, November 2015 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**13**	**4**	**0**	**3**	**1**
Connecticut	0	0	0	75	4	0	5	1
Maine	0	0	0	0	1	0	8	4
Massachusetts	0	0	0	14	8	0	5	2
New Hampshire	0	0	0	0	19	0	29	3
Rhode Island	0	0	0	82	8	0	0	11
Vermont	0	0	0	44	40	0	0	26
Middle Atlantic	**0**	**0**	**0**	**12**	**1**	**0**	**4**	**1**
New Jersey	0	0	0	14	6	0	7	1
New York	0	0	0	26	2	0	4	1
Pennsylvania	0	0	0	37	1	0	8	1
East North Central	**0**	**0**	**0**	**18**	**1**	**0**	**14**	**0**
Illinois	0	0	0	39	0	0	0	0
Indiana	0	0	0	24	1	0	0	1
Michigan	0	0	0	0	5	0	14	2
Ohio	0	0	0	42	3	0	0	1
Wisconsin	0	0	0	232	12	0	0	2
West North Central	**0**	**0**	**0**	**69**	**1**	**0**	**19**	**1**
Iowa	0	0	0	0	1	0	0	1
Kansas	0	0	0	254	0	0	0	0
Minnesota	0	0	0	170	2	0	19	2
Missouri	0	0	0	78	1	0	0	3
Nebraska	0	0	0	0	1	0	0	1
North Dakota	0	0	0	0	1	0	0	1
South Dakota	0	0	0	0	2	0	0	2
South Atlantic	**0**	**0**	**0**	**7**	**3**	**0**	**5**	**1**
Delaware	0	0	0	44	23	0	0	7
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	35	5	0	4	3
Georgia	0	0	0	23	13	0	0	2
Maryland	0	0	0	25	3	0	0	1
North Carolina	0	0	0	8	7	0	26	7
South Carolina	0	0	0	135	54	0	209	9
Virginia	0	0	0	0	5	0	0	1
West Virginia	0	0	0	0	0	0	0	1
East South Central	**0**	**0**	**0**	**37**	**7**	**0**	**0**	**0**
Alabama	0	0	0	0	4	0	0	0
Kentucky	0	0	0	0	81	0	0	43
Mississippi	0	0	0	0	52	0	0	0
Tennessee	0	0	0	37	15	0	0	26
West South Central	**0**	**0**	**0**	**12**	**0**	**0**	**138**	**0**
Arkansas	0	0	0	0	17	0	0	1
Louisiana	0	0	0	0	19	0	0	0
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	12	0	0	138	0
Mountain	**0**	**8**	**0**	**2**	**1**	**0**	**4**	**2**
Arizona	0	0	0	2	2	0	0	0
Colorado	0	0	0	14	1	0	812	2
Idaho	0	72	0	0	6	0	0	5
Montana	0	0	0	0	3	0	0	4
Nevada	0	8	0	3	6	0	0	4
New Mexico	0	189	0	12	3	0	0	2
Utah	0	30	0	51	9	0	284	29
Wyoming	0	0	0	0	2	0	0	18
Pacific Contiguous	**0**	**6**	**0**	**1**	**2**	**0**	**10**	**1**
California	0	6	0	1	2	0	11	1
Oregon	0	0	0	69	3	0	31	1
Washington	0	0	0	0	1	0	26	1
Pacific Noncontiguous	**0**	**0**	**0**	**52**	**6**	**0**	**0**	**3**
Alaska	0	0	0	0	52	0	0	36
Hawaii	0	0	0	52	6	0	0	2
U.S. Total	**0**	**6**	**0**	**2**	**1**	**0**	**3**	**0**

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.3.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Independent Power Producers by Census Division and State, Year-to-Date through November 2015

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**14**	**0**	**2**	**0**	**0**	**11**
Connecticut	0	51	0	2	0	0	46
Maine	0	6	0	1	0	0	15
Massachusetts	0	27	0	4	0	0	29
New Hampshire	0	18	0	0	0	0	24
Rhode Island	0	0	0	11	0	0	440
Vermont	0	0	0	0	0	0	33
Middle Atlantic	**2**	**22**	**0**	**1**	**0**	**0**	**10**
New Jersey	0	28	0	2	0	0	197
New York	13	69	0	2	0	0	13
Pennsylvania	3	25	0	1	0	0	12
East North Central	**0**	**2**	**0**	**1**	**86**	**0**	**39**
Illinois	0	0	0	3	0	0	59
Indiana	1	5,978	0	4	0	0	0
Michigan	10	22,961	0	3	0	0	94
Ohio	0	0	0	1	89	0	59
Wisconsin	0	381	0	0	0	0	101
West North Central	**114**	**915**	**0**	**10**	**0**	**0**	**67**
Iowa	0	84	0	0	0	0	394
Kansas	0	0	0	0	0	0	212
Minnesota	0	1,124	0	45	0	0	71
Missouri	114	0	0	7	0	0	0
South Dakota	0	306	0	0	0	0	0
South Atlantic	**1**	**5**	**0**	**1**	**0**	**0**	**8**
Delaware	0	20	0	8	0	0	0
Florida	0	520	0	4	0	0	0
Georgia	0	19	0	2	0	0	260
Maryland	0	20	0	6	0	0	4
North Carolina	160	130	0	0	0	0	119
South Carolina	0	450	0	6	0	0	105
Virginia	0	2	0	2	0	0	113
West Virginia	1	0	0	1	0	0	6
East South Central	**0**	**57**	**0**	**0**	**0**	**0**	**329**
Alabama	0	90	0	0	0	0	0
Kentucky	0	0	0	0	0	0	329
Mississippi	0	0	0	0	0	0	0
Tennessee	0	74	0	703	0	0	0
West South Central	**0**	**0**	**0**	**0**	**0**	**0**	**13**
Arkansas	0	0	0	0	0	0	191
Louisiana	0	0	0	0	0	0	0
Oklahoma	0	0	0	1	0	0	0
Texas	0	0	0	1	0	0	157
Mountain	**5**	**35**	**0**	**2**	**0**	**0**	**34**
Arizona	0	0	0	0	0	0	0
Colorado	143	0	0	5	0	0	78
Idaho	0	0	0	5	0	0	45
Montana	4	17	0	132	0	0	81
Nevada	0	0	0	9	0	0	171
New Mexico	0	0	0	2	0	0	0
Utah	133	650	0	68	0	0	389
Wyoming	87	0	0	412	0	0	340
Pacific Contiguous	**0**	**30**	**0**	**1**	**0**	**0**	**32**
California	0	91	0	1	0	0	55
Oregon	0	0	0	1	0	0	57
Washington	0	5	0	0	0	0	53
Pacific Noncontiguous	**5**	**2**	**0**	**0**	**0**	**0**	**0**
Alaska	44	0	0	0	0	0	0
Hawaii	0	2	0	0	0	0	0
U.S. Total	**1**	**4**	**0**	**0**	**18**	**0**	**6**

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.3.B. Relative Standard Error (Percent) for Net Generation by Fuel Type:

Independent Power Producers by Census Division and State, Year-to-Date through November 2015 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**13**	**4**	**0**	**3**	**1**
Connecticut	0	0	0	75	4	0	5	1
Maine	0	0	0	0	1	0	8	4
Massachusetts	0	0	0	14	8	0	5	2
New Hampshire	0	0	0	0	19	0	29	3
Rhode Island	0	0	0	82	8	0	0	11
Vermont	0	0	0	44	40	0	0	26
Middle Atlantic	**0**	**0**	**0**	**12**	**1**	**0**	**4**	**1**
New Jersey	0	0	0	14	6	0	7	1
New York	0	0	0	26	2	0	4	1
Pennsylvania	0	0	0	37	1	0	8	1
East North Central	**0**	**0**	**0**	**18**	**1**	**0**	**14**	**0**
Illinois	0	0	0	39	0	0	0	0
Indiana	0	0	0	24	1	0	0	1
Michigan	0	0	0	0	5	0	14	2
Ohio	0	0	0	42	3	0	0	1
Wisconsin	0	0	0	232	12	0	0	2
West North Central	**0**	**0**	**0**	**69**	**1**	**0**	**19**	**1**
Iowa	0	0	0	0	1	0	0	1
Kansas	0	0	0	254	0	0	0	0
Minnesota	0	0	0	170	2	0	19	2
Missouri	0	0	0	78	1	0	0	3
Nebraska	0	0	0	0	1	0	0	1
North Dakota	0	0	0	0	1	0	0	1
South Dakota	0	0	0	0	2	0	0	2
South Atlantic	**0**	**0**	**0**	**7**	**3**	**0**	**5**	**1**
Delaware	0	0	0	44	23	0	0	7
District of Columbia	0	0	0	0	0	0	0	0
Florida	0	0	0	35	5	0	4	3
Georgia	0	0	0	23	13	0	0	2
Maryland	0	0	0	25	3	0	0	1
North Carolina	0	0	0	8	7	0	26	7
South Carolina	0	0	0	135	54	0	209	9
Virginia	0	0	0	0	5	0	0	1
West Virginia	0	0	0	0	0	0	0	1
East South Central	**0**	**0**	**0**	**37**	**7**	**0**	**0**	**0**
Alabama	0	0	0	0	4	0	0	0
Kentucky	0	0	0	0	81	0	0	43
Mississippi	0	0	0	0	52	0	0	0
Tennessee	0	0	0	37	15	0	0	26
West South Central	**0**	**0**	**0**	**12**	**0**	**0**	**138**	**0**
Arkansas	0	0	0	0	17	0	0	1
Louisiana	0	0	0	0	19	0	0	0
Oklahoma	0	0	0	0	0	0	0	0
Texas	0	0	0	12	0	0	138	0
Mountain	**0**	**8**	**0**	**2**	**1**	**0**	**4**	**2**
Arizona	0	0	0	2	2	0	0	0
Colorado	0	0	0	14	1	0	812	2
Idaho	0	72	0	0	6	0	0	5
Montana	0	0	0	0	3	0	0	4
Nevada	0	8	0	3	6	0	0	4
New Mexico	0	189	0	12	3	0	0	2
Utah	0	30	0	51	9	0	284	29
Wyoming	0	0	0	0	2	0	0	18
Pacific Contiguous	**0**	**6**	**0**	**1**	**2**	**0**	**10**	**1**
California	0	6	0	1	2	0	11	1
Oregon	0	0	0	69	3	0	31	1
Washington	0	0	0	0	1	0	26	1
Pacific Noncontiguous	**0**	**0**	**0**	**52**	**6**	**0**	**0**	**3**
Alaska	0	0	0	0	52	0	0	36
Hawaii	0	0	0	52	6	0	0	2
U.S. Total	**0**	**6**	**0**	**2**	**1**	**0**	**3**	**0**

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.4.A. Relative Standard Error for Net Generation by Fuel Type: Commercial Sector by Census Division and State, November 2015

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**88**	**0**	**25**	**0**	**0**	**388**
Connecticut	0	192	0	48	0	0	0
Maine	0	672	0	187	0	0	0
Massachusetts	0	109	0	24	0	0	388
New Hampshire	0	284	0	237	0	0	0
Rhode Island	0	267	0	148	0	0	0
Vermont	0	1,209	0	0	0	0	0
Middle Atlantic	**463**	**76**	**0**	**24**	**0**	**0**	**496**
New Jersey	0	248	0	70	0	0	0
New York	0	84	0	26	0	0	496
Pennsylvania	463	156	0	82	0	0	0
East North Central	**37**	**113**	**0**	**20**	**0**	**0**	**517**
Illinois	170	254	0	23	0	0	517
Indiana	29	1,054	0	42	0	0	0
Michigan	0	54	0	33	0	0	0
Ohio	1,071	190	0	97	0	0	0
Wisconsin	703	207	0	82	0	0	0
West North Central	**34**	**96**	**0**	**62**	**0**	**0**	**0**
Iowa	67	264	0	120	0	0	0
Minnesota	0	102	0	87	0	0	0
Missouri	0	196	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0
North Dakota	0	234	0	0	0	0	0
South Dakota	0	489	0	0	0	0	0
South Atlantic	**50**	**167**	**0**	**42**	**0**	**0**	**176**
District of Columbia	0	0	0	114	0	0	0
Florida	0	0	0	150	0	0	0
Georgia	0	46	0	0	0	0	0
Maryland	0	1,059	0	49	0	0	0
North Carolina	0	211	0	0	0	0	171
South Carolina	0	729	0	327	0	0	524
Virginia	370	432	0	367	0	0	0
East South Central	**0**	**387**	**0**	**79**	**0**	**0**	**0**
Mississippi	0	0	0	193	0	0	0
Tennessee	0	387	0	86	0	0	0
West South Central	**0**	**1,345**	**0**	**25**	**0**	**0**	**0**
Arkansas	0	0	0	508	0	0	0
Louisiana	0	0	0	65	0	0	0
Oklahoma	0	39,411	0	269	0	0	0
Texas	0	986	0	27	0	0	0
Mountain	**0**	**460**	**0**	**25**	**0**	**0**	**425**
Arizona	0	460	0	42	0	0	0
Colorado	0	0	0	0	0	0	425
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	61	0	0	0
New Mexico	0	0	0	47	0	0	0
Utah	0	0	0	53	0	0	0
Pacific Contiguous	**0**	**232**	**0**	**14**	**0**	**0**	**581**
California	0	202	0	13	0	0	581
Oregon	0	5,387	0	113	0	0	0
Washington	0	462	0	263	0	0	0
Pacific Noncontiguous	**31**	**49**	**0**	**463**	**0**	**0**	**0**
Alaska	31	141	0	463	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**19**	**49**	**0**	**9**	**0**	**0**	**143**

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.4.A. Relative Standard Error for Net Generation by Fuel Type:

Commercial Sector by Census Division and State, November 2015 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**131**	**20**	**0**	**56**	**19**
Connecticut	0	0	0	0	0	0	0	48
Maine	0	0	0	0	18	0	56	33
Massachusetts	0	0	0	131	65	0	0	23
New Hampshire	0	0	0	0	29	0	0	68
Rhode Island	0	0	0	0	126	0	0	116
Vermont	0	0	0	0	265	0	0	272
Middle Atlantic	**0**	**0**	**0**	**24**	**7**	**0**	**16**	**12**
New Jersey	0	0	0	25	11	0	0	20
New York	0	0	0	232	12	0	37	17
Pennsylvania	0	0	0	116	8	0	0	25
East North Central	**0**	**0**	**0**	**158**	**8**	**0**	**20**	**15**
Illinois	0	0	0	0	187	0	0	23
Indiana	0	0	0	0	44	0	126	30
Michigan	0	0	0	0	6	0	18	21
Ohio	0	0	0	158	158	0	0	94
Wisconsin	0	0	0	0	25	0	0	63
West North Central	**0**	**0**	**0**	**254**	**27**	**0**	**92**	**31**
Iowa	0	0	0	0	36	0	0	54
Minnesota	0	0	0	0	45	0	92	57
Missouri	0	0	0	254	254	0	0	4
Nebraska	0	0	0	0	41	0	0	40
North Dakota	0	0	0	0	0	0	0	234
South Dakota	0	0	0	0	0	0	0	489
South Atlantic	**0**	**0**	**0**	**31**	**9**	**0**	**20**	**18**
Delaware	0	0	0	200	134	0	0	134
District of Columbia	0	0	0	0	0	0	0	114
Florida	0	0	0	218	30	0	0	80
Georgia	0	0	0	155	35	0	0	32
Maryland	0	0	0	132	58	0	516	45
North Carolina	0	0	0	34	19	0	0	14
South Carolina	0	0	0	0	0	0	0	278
Virginia	0	0	0	0	7	0	20	13
East South Central	**0**	**0**	**0**	**158**	**158**	**0**	**0**	**77**
Mississippi	0	0	0	0	0	0	0	193
Tennessee	0	0	0	158	158	0	0	84
West South Central	**0**	**0**	**0**	**186**	**57**	**0**	**0**	**24**
Arkansas	0	0	0	0	82	0	0	210
Louisiana	0	0	0	0	0	0	0	65
Oklahoma	0	0	0	0	0	0	0	271
Texas	0	0	0	186	60	0	0	25
Mountain	**0**	**0**	**0**	**30**	**30**	**0**	**0**	**20**
Arizona	0	0	0	66	66	0	0	38
Colorado	0	0	0	72	72	0	0	87
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	38	38	0	0	35
New Mexico	0	0	0	0	327	0	0	47
Utah	0	0	0	0	0	0	0	53
Pacific Contiguous	**0**	**0**	**0**	**29**	**6**	**0**	**0**	**9**
California	0	0	0	29	6	0	0	8
Oregon	0	0	0	0	38	0	0	93
Washington	0	0	0	0	39	0	0	134
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**5**	**0**	**0**	**7**
Alaska	0	0	0	0	23	0	0	23
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**14**	**4**	**0**	**10**	**6**

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.4.B. Relative Standard Error for Net Generation by Fuel Type:

Commercial Sector by Census Division and State, Year-to-Date through November 2015

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**0**	**88**	**0**	**25**	**0**	**0**	**388**
Connecticut	0	192	0	48	0	0	0
Maine	0	672	0	187	0	0	0
Massachusetts	0	109	0	24	0	0	388
New Hampshire	0	284	0	237	0	0	0
Rhode Island	0	267	0	148	0	0	0
Vermont	0	1,209	0	0	0	0	0
Middle Atlantic	**463**	**76**	**0**	**24**	**0**	**0**	**496**
New Jersey	0	248	0	70	0	0	0
New York	0	84	0	26	0	0	496
Pennsylvania	463	156	0	82	0	0	0
East North Central	**37**	**113**	**0**	**20**	**0**	**0**	**517**
Illinois	170	254	0	23	0	0	517
Indiana	29	1,054	0	42	0	0	0
Michigan	0	54	0	33	0	0	0
Ohio	1,071	190	0	97	0	0	0
Wisconsin	703	207	0	82	0	0	0
West North Central	**34**	**96**	**0**	**62**	**0**	**0**	**0**
Iowa	67	264	0	120	0	0	0
Minnesota	0	102	0	87	0	0	0
Missouri	0	196	0	0	0	0	0
Nebraska	0	0	0	0	0	0	0
North Dakota	0	234	0	0	0	0	0
South Dakota	0	489	0	0	0	0	0
South Atlantic	**50**	**167**	**0**	**42**	**0**	**0**	**176**
District of Columbia	0	0	0	114	0	0	0
Florida	0	0	0	150	0	0	0
Georgia	0	46	0	0	0	0	0
Maryland	0	1,059	0	49	0	0	0
North Carolina	0	211	0	0	0	0	171
South Carolina	0	729	0	327	0	0	524
Virginia	370	432	0	367	0	0	0
East South Central	**0**	**387**	**0**	**79**	**0**	**0**	**0**
Mississippi	0	0	0	193	0	0	0
Tennessee	0	387	0	86	0	0	0
West South Central	**0**	**1,345**	**0**	**25**	**0**	**0**	**0**
Arkansas	0	0	0	508	0	0	0
Louisiana	0	0	0	65	0	0	0
Oklahoma	0	39,411	0	269	0	0	0
Texas	0	986	0	27	0	0	0
Mountain	**0**	**460**	**0**	**25**	**0**	**0**	**425**
Arizona	0	460	0	42	0	0	0
Colorado	0	0	0	0	0	0	425
Idaho	0	0	0	0	0	0	0
Nevada	0	0	0	61	0	0	0
New Mexico	0	0	0	47	0	0	0
Utah	0	0	0	53	0	0	0
Pacific Contiguous	**0**	**232**	**0**	**14**	**0**	**0**	**581**
California	0	202	0	13	0	0	581
Oregon	0	5,387	0	113	0	0	0
Washington	0	462	0	263	0	0	0
Pacific Noncontiguous	**31**	**49**	**0**	**463**	**0**	**0**	**0**
Alaska	31	141	0	463	0	0	0
Hawaii	0	0	0	0	0	0	0
U.S. Total	**19**	**49**	**0**	**9**	**0**	**0**	**143**

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.4.B. Relative Standard Error for Net Generation by Fuel Type:

Commercial Sector by Census Division and State, Year-to-Date through November 2015 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**131**	**20**	**0**	**56**	**19**
Connecticut	0	0	0	0	0	0	0	48
Maine	0	0	0	0	18	0	56	33
Massachusetts	0	0	0	131	65	0	0	23
New Hampshire	0	0	0	0	29	0	0	68
Rhode Island	0	0	0	0	126	0	0	116
Vermont	0	0	0	0	265	0	0	272
Middle Atlantic	**0**	**0**	**0**	**24**	**7**	**0**	**16**	**12**
New Jersey	0	0	0	25	11	0	0	20
New York	0	0	0	232	12	0	37	17
Pennsylvania	0	0	0	116	8	0	0	25
East North Central	**0**	**0**	**0**	**158**	**8**	**0**	**20**	**15**
Illinois	0	0	0	0	187	0	0	23
Indiana	0	0	0	0	44	0	126	30
Michigan	0	0	0	0	6	0	18	21
Ohio	0	0	0	158	158	0	0	94
Wisconsin	0	0	0	0	25	0	0	63
West North Central	**0**	**0**	**0**	**254**	**27**	**0**	**92**	**31**
Iowa	0	0	0	0	36	0	0	54
Minnesota	0	0	0	0	45	0	92	57
Missouri	0	0	0	254	254	0	0	4
Nebraska	0	0	0	0	41	0	0	40
North Dakota	0	0	0	0	0	0	0	234
South Dakota	0	0	0	0	0	0	0	489
South Atlantic	**0**	**0**	**0**	**31**	**9**	**0**	**20**	**18**
Delaware	0	0	0	200	134	0	0	134
District of Columbia	0	0	0	0	0	0	0	114
Florida	0	0	0	218	30	0	0	80
Georgia	0	0	0	155	35	0	0	32
Maryland	0	0	0	132	58	0	516	45
North Carolina	0	0	0	34	19	0	0	14
South Carolina	0	0	0	0	0	0	0	278
Virginia	0	0	0	0	7	0	20	13
East South Central	**0**	**0**	**0**	**158**	**158**	**0**	**0**	**77**
Mississippi	0	0	0	0	0	0	0	193
Tennessee	0	0	0	158	158	0	0	84
West South Central	**0**	**0**	**0**	**186**	**57**	**0**	**0**	**24**
Arkansas	0	0	0	0	82	0	0	210
Louisiana	0	0	0	0	0	0	0	65
Oklahoma	0	0	0	0	0	0	0	271
Texas	0	0	0	186	60	0	0	25
Mountain	**0**	**0**	**0**	**30**	**30**	**0**	**0**	**20**
Arizona	0	0	0	66	66	0	0	38
Colorado	0	0	0	72	72	0	0	87
Idaho	0	0	0	0	0	0	0	0
Nevada	0	0	0	38	38	0	0	35
New Mexico	0	0	0	0	327	0	0	47
Utah	0	0	0	0	0	0	0	53
Pacific Contiguous	**0**	**0**	**0**	**29**	**6**	**0**	**0**	**9**
California	0	0	0	29	6	0	0	8
Oregon	0	0	0	0	38	0	0	93
Washington	0	0	0	0	39	0	0	134
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**5**	**0**	**0**	**7**
Alaska	0	0	0	0	23	0	0	23
Hawaii	0	0	0	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**14**	**4**	**0**	**10**	**6**

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.5.A. Relative Standard Error for Net Generation by Fuel Type: Industrial Sector by Census Division and State, November 2015

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**70**	**105**	**0**	**28**	**0**	**0**	**31**
Connecticut	0	697	0	45	0	0	0
Maine	0	55	0	38	0	0	30
Massachusetts	124	2,070	0	85	0	0	371
New Hampshire	0	292	0	171	0	0	0
Middle Atlantic	**14**	**18**	**193**	**22**	**52**	**0**	**112**
New Jersey	0	1,274	0	48	181	0	0
New York	0	7	0	58	0	0	112
Pennsylvania	23	93	191	27	31	0	0
East North Central	**6**	**21**	**95**	**19**	**32**	**0**	**73**
Illinois	8	1,822	0	46	129	0	0
Indiana	162	4	0	24	29	0	0
Michigan	63	253	184	39	0	0	185
Ohio	16	313	0	123	151	0	0
Wisconsin	11	109	0	54	0	0	80
West North Central	**10**	**314**	**249**	**59**	**340**	**0**	**0**
Iowa	10	284	249	122	0	0	0
Kansas	0	0	0	90	0	0	0
Minnesota	24	389	0	101	0	0	0
Missouri	178	0	0	534	0	0	0
Nebraska	32	0	0	0	0	0	0
North Dakota	70	680	0	184	340	0	0
South Atlantic	**18**	**53**	**0**	**9**	**0**	**0**	**14**
Delaware	0	0	0	0	0	0	0
Florida	76	131	0	15	0	0	0
Georgia	57	80	0	19	0	0	197
Maryland	0	533	0	118	0	0	0
North Carolina	64	215	0	59	0	0	617
South Carolina	0	0	0	86	0	0	0
Virginia	36	224	0	23	0	0	268
West Virginia	0	0	0	0	0	0	9
East South Central	**11**	**117**	**0**	**15**	**86**	**0**	**0**
Alabama	74	123	0	19	144	0	0
Kentucky	0	0	0	59	0	0	0
Mississippi	0	0	0	31	0	0	0
Tennessee	2	416	0	22	0	0	0
West South Central	**72**	**112**	**114**	**2**	**5**	**0**	**0**
Arkansas	0	0	0	19	0	0	0
Louisiana	0	0	186	2	4	0	0
Oklahoma	88	1,896	0	71	0	0	0
Texas	0	506	83	2	10	0	0
Mountain	**27**	**98**	**0**	**13**	**24**	**0**	**0**
Colorado	0	489	0	114	0	0	0
Idaho	74	0	0	52	0	0	0
Montana	320	0	0	0	0	0	0
Nevada	0	0	0	32	0	0	0
New Mexico	0	225	0	0	0	0	0
Utah	0	429	0	23	0	0	0
Wyoming	29	96	0	19	24	0	0
Pacific Contiguous	**0**	**64**	**0**	**4**	**6**	**0**	**0**
California	0	260	0	4	6	0	0
Oregon	0	0	0	77	0	0	0
Washington	0	60	0	0	0	0	0
Pacific Noncontiguous	**459**	**21**	**0**	**116**	**61**	**0**	**140**
Alaska	0	12	0	116	0	0	0
Hawaii	459	23	0	0	61	0	140
U.S. Total	**6**	**17**	**54**	**2**	**10**	**0**	**16**

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.5.A. Relative Standard Error for Net Generation by Fuel Type:

Industrial Sector by Census Division and State, November 2015 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**0**	**3**	**0**	**46**	**13**
Connecticut	0	0	0	0	0	0	0	45
Maine	0	0	0	0	2	0	46	12
Massachusetts	0	0	0	0	194	0	0	72
New Hampshire	0	0	0	0	0	0	0	171
Middle Atlantic	**0**	**0**	**0**	**87**	**8**	**0**	**0**	**13**
New Jersey	0	0	0	235	235	0	0	56
New York	0	0	0	0	3	0	0	16
Pennsylvania	0	0	0	93	12	0	0	15
East North Central	**0**	**0**	**0**	**207**	**8**	**0**	**11**	**8**
Illinois	0	0	0	0	0	0	33	14
Indiana	0	0	0	0	22	0	0	17
Michigan	0	0	0	0	14	0	0	22
Ohio	0	0	0	207	13	0	0	29
Wisconsin	0	0	0	0	14	0	73	11
West North Central	**0**	**0**	**0**	**0**	**8**	**0**	**70**	**9**
Iowa	0	0	0	0	19	0	0	11
Kansas	0	0	0	0	68	0	325	83
Minnesota	0	0	0	0	9	0	71	14
Missouri	0	0	0	0	82	0	0	144
Nebraska	0	0	0	0	0	0	0	32
North Dakota	0	0	0	0	49	0	0	90
South Atlantic	**0**	**0**	**0**	**0**	**2**	**0**	**8**	**3**
Delaware	0	0	0	0	45	0	0	1
Florida	0	0	0	0	7	0	10	7
Georgia	0	0	0	0	4	0	0	5
Maryland	0	0	0	0	0	0	0	28
North Carolina	0	0	0	0	8	0	0	14
South Carolina	0	0	0	0	1	0	0	2
Virginia	0	0	0	0	5	0	0	8
West Virginia	0	0	0	0	0	0	0	5
East South Central	**0**	**0**	**0**	**0**	**4**	**0**	**50**	**4**
Alabama	0	0	0	0	7	0	0	8
Kentucky	0	0	0	0	2	0	0	20
Mississippi	0	0	0	0	4	0	258	7
Tennessee	0	0	0	0	12	0	0	6
West South Central	**0**	**0**	**0**	**0**	**5**	**0**	**11**	**2**
Arkansas	0	0	0	0	3	0	0	4
Louisiana	0	0	0	0	7	0	12	2
Oklahoma	0	0	0	0	24	0	127	35
Texas	0	0	0	0	11	0	14	2
Mountain	**0**	**0**	**0**	**200**	**5**	**0**	**16**	**9**
Colorado	0	0	0	0	339	0	87	69
Idaho	0	0	0	0	2	0	0	12
Montana	0	0	0	0	127	0	0	126
Nevada	0	0	0	200	200	0	0	32
New Mexico	0	0	0	0	0	0	0	2
Utah	0	0	0	0	0	0	0	16
Wyoming	0	0	0	0	0	0	0	13
Pacific Contiguous	**0**	**0**	**0**	**104**	**7**	**0**	**17**	**3**
California	0	0	0	104	16	0	17	3
Oregon	0	0	0	0	12	0	0	15
Washington	0	0	0	0	8	0	0	7
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**16**	**0**	**0**	**23**
Alaska	0	0	0	0	58	0	0	75
Hawaii	0	0	0	0	16	0	0	22
U.S. Total	**0**	**0**	**0**	**61**	**2**	**0**	**7**	**1**

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.5.B. Relative Standard Error for Net Generation by Fuel Type:

Industrial Sector by Census Division and State, Year-to-Date through November 2015

Census Region and State	Coal	Petroleum Liquids	Petroleum Coke	Natural Gas	Other Gases	Nuclear	Hydroelectric Conventional
New England	**70**	**105**	**0**	**28**	**0**	**0**	**31**
Connecticut	0	697	0	45	0	0	0
Maine	0	55	0	38	0	0	30
Massachusetts	124	2,070	0	85	0	0	371
New Hampshire	0	292	0	171	0	0	0
Middle Atlantic	**14**	**18**	**193**	**22**	**52**	**0**	**112**
New Jersey	0	1,274	0	48	181	0	0
New York	0	7	0	58	0	0	112
Pennsylvania	23	93	191	27	31	0	0
East North Central	**6**	**21**	**95**	**19**	**32**	**0**	**73**
Illinois	8	1,822	0	46	129	0	0
Indiana	162	4	0	24	29	0	0
Michigan	63	253	184	39	0	0	185
Ohio	16	313	0	123	151	0	0
Wisconsin	11	109	0	54	0	0	80
West North Central	**10**	**314**	**249**	**59**	**340**	**0**	**0**
Iowa	10	284	249	122	0	0	0
Kansas	0	0	0	90	0	0	0
Minnesota	24	389	0	101	0	0	0
Missouri	178	0	0	534	0	0	0
Nebraska	32	0	0	0	0	0	0
North Dakota	70	680	0	184	340	0	0
South Atlantic	**18**	**53**	**0**	**9**	**0**	**0**	**14**
Delaware	0	0	0	0	0	0	0
Florida	76	131	0	15	0	0	0
Georgia	57	80	0	19	0	0	197
Maryland	0	533	0	118	0	0	0
North Carolina	64	215	0	59	0	0	617
South Carolina	0	0	0	86	0	0	0
Virginia	36	224	0	23	0	0	268
West Virginia	0	0	0	0	0	0	9
East South Central	**11**	**117**	**0**	**15**	**86**	**0**	**0**
Alabama	74	123	0	19	144	0	0
Kentucky	0	0	0	59	0	0	0
Mississippi	0	0	0	31	0	0	0
Tennessee	2	416	0	22	0	0	0
West South Central	**72**	**112**	**114**	**2**	**5**	**0**	**0**
Arkansas	0	0	0	19	0	0	0
Louisiana	0	0	186	2	4	0	0
Oklahoma	88	1,896	0	71	0	0	0
Texas	0	506	83	2	10	0	0
Mountain	**27**	**98**	**0**	**13**	**24**	**0**	**0**
Colorado	0	489	0	114	0	0	0
Idaho	74	0	0	52	0	0	0
Montana	320	0	0	0	0	0	0
Nevada	0	0	0	32	0	0	0
New Mexico	0	225	0	0	0	0	0
Utah	0	429	0	23	0	0	0
Wyoming	29	96	0	19	24	0	0
Pacific Contiguous	**0**	**64**	**0**	**4**	**6**	**0**	**0**
California	0	260	0	4	6	0	0
Oregon	0	0	0	77	0	0	0
Washington	0	60	0	0	0	0	0
Pacific Noncontiguous	**459**	**21**	**0**	**116**	**61**	**0**	**140**
Alaska	0	12	0	116	0	0	0
Hawaii	459	23	0	0	61	0	140
U.S. Total	**6**	**17**	**54**	**2**	**10**	**0**	**16**

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.5.B. Relative Standard Error for Net Generation by Fuel Type:

Industrial Sector by Census Division and State, Year-to-Date through November 2015 (Continued)

Census Region and State	Wind	Geothermal	Biomass	Solar Thermal and Photovoltaic	Other Renewables	Hydroelectric Pumped Storage	Other Energy Sources	All Energy Sources
New England	**0**	**0**	**0**	**0**	**3**	**0**	**46**	**13**
Connecticut	0	0	0	0	0	0	0	45
Maine	0	0	0	0	2	0	46	12
Massachusetts	0	0	0	0	194	0	0	72
New Hampshire	0	0	0	0	0	0	0	171
Middle Atlantic	**0**	**0**	**0**	**87**	**8**	**0**	**0**	**13**
New Jersey	0	0	0	235	235	0	0	56
New York	0	0	0	0	3	0	0	16
Pennsylvania	0	0	0	93	12	0	0	15
East North Central	**0**	**0**	**0**	**207**	**8**	**0**	**11**	**8**
Illinois	0	0	0	0	0	0	33	14
Indiana	0	0	0	0	22	0	0	17
Michigan	0	0	0	0	14	0	0	22
Ohio	0	0	0	207	13	0	0	29
Wisconsin	0	0	0	0	14	0	73	11
West North Central	**0**	**0**	**0**	**0**	**8**	**0**	**70**	**9**
Iowa	0	0	0	0	19	0	0	11
Kansas	0	0	0	0	68	0	325	83
Minnesota	0	0	0	0	9	0	71	14
Missouri	0	0	0	0	82	0	0	144
Nebraska	0	0	0	0	0	0	0	32
North Dakota	0	0	0	0	49	0	0	90
South Atlantic	**0**	**0**	**0**	**0**	**2**	**0**	**8**	**3**
Delaware	0	0	0	0	45	0	0	1
Florida	0	0	0	0	7	0	10	7
Georgia	0	0	0	0	4	0	0	5
Maryland	0	0	0	0	0	0	0	28
North Carolina	0	0	0	0	8	0	0	14
South Carolina	0	0	0	0	1	0	0	2
Virginia	0	0	0	0	5	0	0	8
West Virginia	0	0	0	0	0	0	0	5
East South Central	**0**	**0**	**0**	**0**	**4**	**0**	**50**	**4**
Alabama	0	0	0	0	7	0	0	8
Kentucky	0	0	0	0	2	0	0	20
Mississippi	0	0	0	0	4	0	258	7
Tennessee	0	0	0	0	12	0	0	6
West South Central	**0**	**0**	**0**	**0**	**5**	**0**	**11**	**2**
Arkansas	0	0	0	0	3	0	0	4
Louisiana	0	0	0	0	7	0	12	2
Oklahoma	0	0	0	0	24	0	127	35
Texas	0	0	0	0	11	0	14	2
Mountain	**0**	**0**	**0**	**200**	**5**	**0**	**16**	**9**
Colorado	0	0	0	0	339	0	87	69
Idaho	0	0	0	0	2	0	0	12
Montana	0	0	0	0	127	0	0	126
Nevada	0	0	0	200	200	0	0	32
New Mexico	0	0	0	0	0	0	0	2
Utah	0	0	0	0	0	0	0	16
Wyoming	0	0	0	0	0	0	0	13
Pacific Contiguous	**0**	**0**	**0**	**104**	**7**	**0**	**17**	**3**
California	0	0	0	104	16	0	17	3
Oregon	0	0	0	0	12	0	0	15
Washington	0	0	0	0	8	0	0	7
Pacific Noncontiguous	**0**	**0**	**0**	**0**	**16**	**0**	**0**	**23**
Alaska	0	0	0	0	58	0	0	75
Hawaii	0	0	0	0	16	0	0	22
U.S. Total	**0**	**0**	**0**	**61**	**2**	**0**	**7**	**1**

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.6.A. Relative Standard Error for Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, November 2015

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**3**	**0**	**1**
Connecticut	0	1	5	0	1
Maine	0	1	2	0	1
Massachusetts	1	1	7	0	1
New Hampshire	0	1	5	0	1
Rhode Island	0	0	0	0	0
Vermont	2	3	7	0	2
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	0	2	0	0
New York	0	0	2	0	0
Pennsylvania	0	0	1	0	0
East North Central	**0**	**1**	**1**	**0**	**0**
Illinois	0	1	2	0	1
Indiana	1	1	2	0	1
Michigan	1	2	2	0	1
Ohio	1	1	2	0	1
Wisconsin	1	3	4	0	2
West North Central	**1**	**2**	**2**	**0**	**1**
Iowa	2	7	4	0	3
Kansas	2	1	4	0	1
Minnesota	2	4	5	0	2
Missouri	1	1	5	0	1
Nebraska	2	7	6	0	3
North Dakota	2	4	7	0	3
South Dakota	3	9	8	0	4
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	1	1	8	0	2
District of Columbia	0	0	0	0	0
Florida	0	0	3	0	0
Georgia	1	1	2	0	1
Maryland	1	1	4	0	1
North Carolina	1	1	2	0	1
South Carolina	1	1	2	0	1
Virginia	1	0	2	0	1
West Virginia	0	0	0	0	0
East South Central	**1**	**1**	**2**	**0**	**1**
Alabama	1	1	2	0	1
Kentucky	1	2	3	0	2
Mississippi	2	1	3	0	1
Tennessee	1	1	4	0	1
West South Central	**1**	**0**	**1**	**0**	**0**
Arkansas	2	1	3	0	1
Louisiana	1	1	1	0	1
Oklahoma	1	1	3	0	1
Texas	1	0	1	0	0
Mountain	**1**	**2**	**1**	**0**	**1**
Arizona	1	3	3	0	1
Colorado	2	5	5	0	3
Idaho	1	4	4	0	2
Montana	2	7	6	0	3
Nevada	1	4	1	0	1
New Mexico	4	8	6	0	4
Utah	3	6	2	0	2
Wyoming	3	7	2	0	2
Pacific Contiguous	**0**	**1**	**2**	**0**	**1**
California	1	1	2	0	1
Oregon	1	4	6	0	2
Washington	1	4	5	0	2
Pacific Noncontiguous	**1**	**4**	**3**	**0**	**2**
Alaska	3	9	10	0	4
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**1**	**0**	**0**

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.6.B. Relative Standard Error for Sales of Electricity to Ultimate Customers

by End-Use Sector, Census Division, and State, Year-to-Date through November 2015

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**3**	**0**	**0**
Connecticut	0	1	4	0	1
Maine	0	1	1	0	0
Massachusetts	0	1	6	0	1
New Hampshire	0	1	4	0	1
Rhode Island	0	0	0	0	0
Vermont	1	2	6	0	2
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	0	2	0	0
New York	0	0	2	0	0
Pennsylvania	0	0	0	0	0
East North Central	**0**	**1**	**1**	**0**	**0**
Illinois	0	1	1	0	0
Indiana	0	1	2	0	1
Michigan	0	1	1	0	1
Ohio	0	1	1	0	1
Wisconsin	0	2	2	0	1
West North Central	**0**	**1**	**1**	**0**	**1**
Iowa	1	5	3	0	2
Kansas	1	1	2	0	1
Minnesota	1	3	3	0	1
Missouri	0	1	4	0	1
Nebraska	1	5	4	0	2
North Dakota	1	3	5	0	2
South Dakota	1	7	5	0	3
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	0	1	9	0	2
District of Columbia	0	0	0	0	0
Florida	0	0	2	0	0
Georgia	0	1	1	0	0
Maryland	0	1	3	0	0
North Carolina	0	0	1	0	0
South Carolina	1	1	1	0	0
Virginia	0	0	1	0	0
West Virginia	0	0	0	0	0
East South Central	**0**	**1**	**1**	**0**	**0**
Alabama	1	1	1	0	0
Kentucky	1	1	2	0	1
Mississippi	1	1	2	0	1
Tennessee	0	1	3	0	1
West South Central	**0**	**0**	**1**	**0**	**0**
Arkansas	1	1	2	0	1
Louisiana	0	1	1	0	0
Oklahoma	1	1	2	0	1
Texas	0	0	1	0	0
Mountain	**0**	**1**	**1**	**0**	**1**
Arizona	0	2	2	0	1
Colorado	1	4	3	0	2
Idaho	0	3	2	0	1
Montana	1	5	4	0	2
Nevada	0	2	1	0	1
New Mexico	1	6	4	0	3
Utah	1	4	1	0	2
Wyoming	1	5	2	0	2
Pacific Contiguous	**0**	**1**	**1**	**0**	**0**
California	0	1	1	0	0
Oregon	0	3	4	0	2
Washington	0	3	3	0	1
Pacific Noncontiguous	**1**	**3**	**2**	**0**	**1**
Alaska	1	7	7	0	3
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**0**	**0**

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.7.A. Relative Standard Error for Revenue from Sales of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, November 2015

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**2**	**0**	**0**
Connecticut	0	1	4	0	1
Maine	0	1	2	0	1
Massachusetts	1	1	4	0	1
New Hampshire	0	1	4	0	1
Rhode Island	0	0	0	0	0
Vermont	2	3	6	0	2
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	0	2	0	0
New York	0	0	2	0	0
Pennsylvania	0	0	1	0	0
East North Central	**0**	**1**	**1**	**0**	**0**
Illinois	0	1	2	0	1
Indiana	1	2	2	0	1
Michigan	1	1	3	0	1
Ohio	1	1	3	0	1
Wisconsin	1	2	5	0	1
West North Central	**1**	**2**	**3**	**0**	**1**
Iowa	2	6	6	0	3
Kansas	2	2	5	0	1
Minnesota	2	3	6	0	2
Missouri	1	2	5	0	1
Nebraska	2	6	9	0	3
North Dakota	2	4	7	0	3
South Dakota	3	7	10	0	4
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	1	2	9	0	2
District of Columbia	0	0	0	0	0
Florida	0	1	3	0	0
Georgia	1	1	3	0	1
Maryland	1	1	3	0	1
North Carolina	1	1	2	0	1
South Carolina	1	1	2	0	1
Virginia	1	1	3	0	1
West Virginia	0	1	0	0	0
East South Central	**1**	**1**	**2**	**0**	**1**
Alabama	1	2	2	0	1
Kentucky	1	2	4	0	1
Mississippi	2	2	4	0	2
Tennessee	1	2	5	0	1
West South Central	**1**	**1**	**1**	**0**	**1**
Arkansas	2	2	3	0	1
Louisiana	1	1	1	0	1
Oklahoma	2	2	4	0	1
Texas	1	1	2	0	1
Mountain	**1**	**2**	**2**	**0**	**1**
Arizona	2	3	5	0	2
Colorado	3	5	7	0	3
Idaho	1	3	5	0	2
Montana	2	5	11	0	3
Nevada	2	4	1	0	1
New Mexico	6	8	11	0	5
Utah	4	6	3	0	3
Wyoming	3	5	3	0	2
Pacific Contiguous	**0**	**1**	**2**	**0**	**1**
California	1	1	2	0	1
Oregon	1	3	8	0	2
Washington	1	3	7	0	1
Pacific Noncontiguous	**1**	**2**	**2**	**0**	**1**
Alaska	2	6	10	0	3
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**1**	**0**	**0**

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.7.B. Relative Standard Error for Revenue from Sales of Electricity to Ultimate Customers

by End-Use Sector, Census Division, and State, Year-to-Date through November 2015

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**2**	**0**	**0**
Connecticut	0	1	3	0	0
Maine	0	8	2	0	3
Massachusetts	0	1	3	0	0
New Hampshire	0	5	3	0	2
Rhode Island	0	0	0	0	0
Vermont	1	2	5	0	1
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	0	2	0	0
New York	0	0	1	0	0
Pennsylvania	0	0	1	0	0
East North Central	**1**	**1**	**1**	**0**	**1**
Illinois	0	1	2	0	0
Indiana	1	1	1	0	1
Michigan	0	1	2	0	1
Ohio	4	4	3	0	2
Wisconsin	0	2	3	0	1
West North Central	**0**	**1**	**2**	**0**	**1**
Iowa	1	4	4	0	2
Kansas	1	1	3	0	1
Minnesota	1	2	4	0	1
Missouri	1	1	3	0	1
Nebraska	1	4	5	0	2
North Dakota	1	3	5	0	2
South Dakota	1	5	7	0	2
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	1	2	7	0	1
District of Columbia	0	0	0	0	0
Florida	0	0	2	0	0
Georgia	1	1	2	0	1
Maryland	0	1	2	0	0
North Carolina	1	1	1	0	0
South Carolina	1	1	1	0	1
Virginia	0	0	2	0	0
West Virginia	0	1	0	0	0
East South Central	**0**	**1**	**1**	**0**	**0**
Alabama	1	1	1	0	1
Kentucky	1	2	3	0	1
Mississippi	1	1	2	0	1
Tennessee	0	1	3	0	1
West South Central	**0**	**0**	**1**	**0**	**0**
Arkansas	1	1	2	0	1
Louisiana	1	1	1	0	0
Oklahoma	1	1	3	0	1
Texas	0	0	1	0	0
Mountain	**0**	**2**	**1**	**0**	**1**
Arizona	0	2	3	0	1
Colorado	1	4	5	0	2
Idaho	1	3	2	0	1
Montana	1	4	7	0	2
Nevada	0	10	1	0	3
New Mexico	1	6	7	0	3
Utah	1	4	2	0	2
Wyoming	1	4	2	0	2
Pacific Contiguous	**0**	**1**	**1**	**0**	**0**
California	0	1	1	0	0
Oregon	0	2	5	0	1
Washington	0	2	4	0	1
Pacific Noncontiguous	**1**	**2**	**1**	**0**	**1**
Alaska	2	5	7	0	3
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**0**	**0**

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.8.A. Relative Standard Error for Average Price of Electricity to Ultimate Customers by End-Use Sector, Census Division, and State, November 2015

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**0**	**2**	**0**	**0**
Connecticut	0	0	5	0	1
Maine	0	1	1	0	0
Massachusetts	0	0	4	0	1
New Hampshire	0	0	2	0	1
Rhode Island	0	0	0	0	0
Vermont	1	2	3	0	1
Middle Atlantic	**0**	**0**	**0**	**0**	**0**
New Jersey	0	0	1	0	0
New York	0	0	1	0	0
Pennsylvania	0	0	1	0	0
East North Central	**0**	**0**	**1**	**0**	**0**
Illinois	0	0	1	0	0
Indiana	1	1	1	0	1
Michigan	0	1	1	0	0
Ohio	0	0	1	0	0
Wisconsin	1	1	2	0	1
West North Central	**1**	**1**	**1**	**0**	**0**
Iowa	1	2	3	0	1
Kansas	2	2	3	0	1
Minnesota	1	1	3	0	1
Missouri	1	1	2	0	1
Nebraska	1	2	4	0	1
North Dakota	1	1	3	0	1
South Dakota	2	3	4	0	2
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	1	1	4	0	1
District of Columbia	0	0	0	0	0
Florida	0	1	2	0	0
Georgia	1	1	2	0	1
Maryland	0	1	1	0	0
North Carolina	1	1	1	0	1
South Carolina	1	1	1	0	1
Virginia	1	1	2	0	0
West Virginia	0	0	0	0	0
East South Central	**1**	**1**	**1**	**0**	**0**
Alabama	1	1	1	0	1
Kentucky	1	1	1	0	1
Mississippi	2	2	2	0	1
Tennessee	1	1	2	0	1
West South Central	**1**	**1**	**1**	**0**	**0**
Arkansas	2	2	2	0	1
Louisiana	1	1	1	0	1
Oklahoma	1	2	3	0	1
Texas	1	1	1	0	0
Mountain	**0**	**1**	**1**	**0**	**0**
Arizona	1	1	2	0	1
Colorado	1	1	4	0	1
Idaho	1	1	2	0	1
Montana	1	2	6	0	1
Nevada	0	1	1	0	1
New Mexico	2	2	6	0	2
Utah	1	1	2	0	1
Wyoming	2	2	1	0	1
Pacific Contiguous	**0**	**1**	**1**	**0**	**0**
California	0	0	1	0	0
Oregon	1	1	3	0	1
Washington	1	2	2	0	1
Pacific Noncontiguous	**1**	**2**	**1**	**0**	**1**
Alaska	2	4	5	0	2
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**0**	**0**	**0**

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table A.8.B. Relative Standard Error for Average Price of Electricity to Ultimate Customers

by End-Use Sector, Census Division, and State, Year-to-Date through November 2015

Census Region and State	Residential	Commercial	Industrial	Transportation	Total
New England	**0**	**1**	**3**	**0**	**1**
Connecticut	0	1	5	0	1
Maine	0	8	2	0	3
Massachusetts	0	1	6	0	1
New Hampshire	0	5	4	0	2
Rhode Island	0	0	0	0	0
Vermont	1	3	7	0	2
Middle Atlantic	**0**	**0**	**1**	**0**	**0**
New Jersey	0	0	3	0	0
New York	0	0	2	0	0
Pennsylvania	0	0	1	0	0
East North Central	**1**	**1**	**1**	**0**	**1**
Illinois	0	1	2	0	0
Indiana	0	2	2	0	1
Michigan	0	2	2	0	1
Ohio	4	4	3	0	3
Wisconsin	0	3	4	0	1
West North Central	**0**	**1**	**2**	**0**	**1**
Iowa	1	6	4	0	2
Kansas	1	1	3	0	1
Minnesota	0	4	5	0	2
Missouri	0	1	5	0	1
Nebraska	1	6	6	0	3
North Dakota	1	4	6	0	3
South Dakota	1	8	8	0	3
South Atlantic	**0**	**0**	**1**	**0**	**0**
Delaware	0	2	10	0	2
District of Columbia	0	0	0	0	0
Florida	0	1	3	0	0
Georgia	1	1	2	0	1
Maryland	0	1	4	0	0
North Carolina	0	1	2	0	0
South Carolina	1	1	2	0	1
Virginia	0	0	2	0	0
West Virginia	0	1	0	0	0
East South Central	**0**	**1**	**2**	**0**	**1**
Alabama	1	1	1	0	1
Kentucky	0	2	3	0	1
Mississippi	1	2	3	0	1
Tennessee	0	2	4	0	1
West South Central	**0**	**0**	**1**	**0**	**0**
Arkansas	1	1	2	0	1
Louisiana	1	1	1	0	0
Oklahoma	1	1	3	0	1
Texas	0	1	1	0	0
Mountain	**0**	**2**	**2**	**0**	**1**
Arizona	0	2	3	0	1
Colorado	1	5	6	0	2
Idaho	0	4	2	0	1
Montana	1	6	7	0	3
Nevada	0	11	1	0	3
New Mexico	1	7	8	0	4
Utah	1	5	2	0	2
Wyoming	1	6	3	0	2
Pacific Contiguous	**0**	**1**	**2**	**0**	**1**
California	0	1	1	0	1
Oregon	0	3	6	0	2
Washington	0	3	5	0	2
Pacific Noncontiguous	**1**	**3**	**2**	**0**	**1**
Alaska	2	8	9	0	4
Hawaii	0	0	0	0	0
U.S. Total	**0**	**0**	**1**	**0**	**0**

Displayed values of zero may represent small values that round to zero. The Excel version of this table provides additional precision which may be accessed by selecting individual cells.

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2015

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2015	1	01/07/2015 5:00 PM	01/08/2015 8:35 AM	15 Hours, 35 Minutes	Memphis Light Gas and Water Division	SERC	Tennessee	Public appeal to reduce the use of electricity - Severe Weather - Winter	Unknown	Unknown
2015	1	01/07/2015 5:00 PM	01/08/2015 8:35 AM	15 Hours, 35 Minutes	Tennessee Valley Authority	SERC	Tennessee, Kentucky, Virginia, North Carolina, Georgia, Alabama, Missouri	Public appeal to reduce the use of electricity - Severe Weather - Winter	Unknown	Unknown
2015	2	02/06/2015 8:58 PM	. .	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	Northern California	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather - Wind	Unknown	65000
2015	2	02/16/2015 9:00 PM	02/18/2015 2:00 PM	41 Hours, 0 Minutes	Tennessee Valley Authority	SERC	Tennessee, Kentucky, Virginia, North Carolina, Georgia, Alabama, Missouri	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather- Winter	Unknown	67189
2015	2	02/16/2015 9:41 PM	02/18/2015 7:00 AM	33 Hours, 19 Minutes	Southern Company	SERC	Northern/North Eastern, Georgia	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather- Winter	620	186035
2015	2	02/17/2015 2:12 AM	02/18/2015 4:00 PM	37 Hours, 48 Minutes	Duke Energy Carolinas	SERC	North Carolina, South Carolina	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather- Winter	Unknown	68000
2015	2	02/17/2015 9:00 AM	02/18/2015 11:00 PM	38 Hours, 0 Minutes	Duke Energy Progress	SERC	North Carolina, South Carolina	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather- Winter	Unknown	52000
2015	2	02/18/2015 3:00 PM	02/20/2015 9:00 AM	42 Hours, 0 Minutes	Tennessee Valley Authority	SERC	Tennessee, Kentucky, Virginia, North Carolina, Georgia, Alabama, Missouri	Public appeal to reduce the use of electricity - Severe Weather- Winter	Unknown	Unknown
2015	2	02/20/2015 6:00 AM	02/20/2015 10:00 AM	4 Hours, 0 Minutes	Duke Energy Progress	SERC	North Carolina, South Carolina	System-wide voltage reductions of 3 percent or more - Severe Weather- Winter	Unknown	Unknown
2015	2	02/21/2015 8:34 AM	02/21/2015 12:45 PM	4 Hours, 11 Minutes	Tennessee Valley Authority	SERC	Fentress County, Tennessee	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather- Winter	Unknown	50000
2015	2	02/26/2015 3:12 AM	02/26/2015 8:00 PM	16 Hours, 48 Minutes	Duke Energy Progress	SERC	North Carolina, South Carolina	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather- Winter	Unknown	124000
2015	2	02/26/2015 3:30 AM	02/27/2015 12:00 PM	32 Hours, 30 Minutes	Duke Energy Carolinas	SERC	North Carolina	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather- Winter	400	103776
2015	3	03/15/2015 3:30 PM	03/15/2015 7:00 PM	3 Hours, 30 Minutes	Portland General Electric Co	WECC	Greater Portland & Salem , Oregon	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather - Wind	210	71000
2015	3	03/26/2015 3:21 PM	03/26/2015 4:59 PM	1 Hours, 38 Minutes	Pacific Gas & Electric Co	WECC	Contra Costa County, California	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - System Operations	15	Unknown
2015	4	04/03/2015 2:00 AM	04/03/2015 7:48 AM	5 Hours, 48 Minutes	Westar Energy Inc	SPP	Harvey, Reno, and Sedgwick Counties, Kansas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather - Thunderstorms	Unknown	70000
2015	4	04/06/2015 8:12 AM	04/06/2015 12:08 PM	3 Hours, 56 Minutes	Pacific Gas & Electric Co	WECC	Butte County, California	Loss of electric service to more than 50,000 customers for 1 hour or more - System Operations	Unknown	80000
2015	4	04/07/2015 12:30 PM	04/07/2015 5:34 PM	5 Hours, 4 Minutes	Potomac Electric Power Co	RFC	Unknown	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident - System Operations	Unknown	Unknown
2015	4	04/07/2015 3:34 PM	04/07/2015 3:46 PM	0 Hours, 12 Minutes	WAPA Sierra Nevada Region	WECC	California	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - System Operations	0	0
2015	4	04/17/2015 9:16 AM	04/17/2015 11:00 AM	1 Hours, 44 Minutes	Peak Reliability	WECC	Canada	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - System Operations	9300	Unknown
2015	4	04/17/2015 9:30 PM	04/19/2015 11:50 PM	50 Hours, 20 Minutes	CenterPoint Energy	TRE	Houston, Texas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	280982
2015	4	04/18/2015 9:00 PM	04/21/2015 4:00 AM	55 Hours, 0 Minutes	Oncor Electric Delivery Company LLC	TRE	Dallas, Fort Worth, Texas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	89000
2015	4	04/24/2015 7:10 PM	04/26/2015 4:00 PM	44 Hours, 50 Minutes	Oncor Electric Delivery Company LLC	TRE	Dallas, Fort Worth, Texas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	57000
2015	4	04/27/2015 10:30 AM	04/28/2015 6:45 PM	32 Hours, 15 Minutes	Entergy Services, Inc.	SERC	Louisiana and Texas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	199000
2015	5	05/18/2015 3:28 PM	05/18/2015 3:47 PM	0 Hours, 19 Minutes	Peak Reliability for BCHA	WECC	Washington	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - Severe Weather	275	0
2015	5	05/25/2015 6:00 PM	05/29/2015 7:15 AM	85 Hours, 15 Minutes	Oncor Electric Delivery Company LLC	TRE	North Texas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	454000
2015	5	05/25/2015 8:30 PM	. .	. Hours, . Minutes	Southwest Power Pool, Inc.	SPP	Texas, Louisiana, Arkansas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	57351
2015	5	05/25/2015 8:30 PM	05/26/2015 6:30 PM	22 Hours, 0 Minutes	American Electric Power - (SPP Reliability Region)	SPP	Texas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	57531
2015	5	05/25/2015 10:45 PM	05/28/2015 1:25 AM	50 Hours, 40 Minutes	CenterPoint Energy	TRE	Fort Bend County, & Harris County ,Texas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	61000
2015	5	05/26/2015 5:30 AM	05/27/2015 7:00 PM	37 Hours, 30 Minutes	Entergy Services, Inc.	SERC	Texas, Louisiana, Arkansas, Mississippi	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	78515
2015	6	06/01/2015 7:19 PM	06/02/2015 8:36 AM	13 Hours, 17 Minutes	Pacific Gas & Electric Co	WECC	California	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - System Operations	5	484

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2015

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2015	6	06/02/2015 6:58 PM	06/02/2015 7:24 PM	0 Hours, 26 Minutes	Pacific Gas & Electric Co	WECC	California	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - System Operations	5	727
2015	6	06/03/2015 3:00 PM	06/05/2015 5:00 PM	50 Hours, 0 Minutes	ERCOT	TRE	Texas	Public appeal to reduce the use of electricity - System Operations	Unknown	Unknown
2015	6	06/07/2015 1:52 PM	06/07/2015 2:13 PM	0 Hours, 21 Minutes	Tennessee Valley Authority	SERC	Tennessee	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident - System Operations	Unknown	Unknown
2015	6	06/07/2015 1:54 PM	06/07/2015 2:13 PM	0 Hours, 19 Minutes	Memphis Light Gas and Water Division	SERC	Shelby County, Tennessee	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident and System-wide voltage reductions of 3 percent or more - System Operations	926	Unknown
2015	6	06/08/2015 12:00 AM	. .	. Hours, . Minutes	California Department of Water Resources	WECC	Merced County, California	Fuel supply emergencies that could impact electric power system adequacy or reliability - System Operations	176	Unknown
2015	6	06/23/2015 5:06 PM	06/26/2015 4:00 PM	70 Hours, 54 Minutes	Delmarva Power & Light Company	RFC	New Castle County, Delaware	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	65000
2015	6	06/23/2015 5:30 PM	06/23/2015 7:00 PM	1 Hours, 30 Minutes	Exelon Corporation / PECO	RFC	Delaware County, PA; Chester County, PA	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	200000
2015	6	06/23/2015 6:00 PM	06/30/2015 6:00 PM	168 Hours, 0 Minutes	Atlantic City Electric Co	RFC	Gloucester County, Burlington County, Atlantic County, Cape May County, New Jersey	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	263000
2015	6	06/23/2015 6:18 PM	06/23/2015 8:30 PM	2 Hours, 12 Minutes	PJM Interconnection	RFC	New Jersey	Load shedding of 100 Megawatts or more implemented under emergency operational policy and Loss of electric service to more than 50,000 customers for 1 hour or more - System Operations	198	156338
2015	6	06/23/2015 6:26 PM	. .	. Hours, . Minutes	Public Service Electric & Gas	NPCC	New Jersey	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	90	73000
2015	6	06/23/2015 6:30 PM	06/24/2015 5:00 AM	10 Hours, 30 Minutes	ISO New England	NPCC	Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	62442
2015	6	06/26/2015 2:00 AM	. .	. Hours, . Minutes	Kansas City Power & Light Co	SPP	Kansas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	110000
2015	6	06/27/2015 5:00 PM	06/30/2015 5:18 PM	72 Hours, 18 Minutes	Detroit Edison Co	RFC	Wayne County, Michigan	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	68000
2015	6	06/29/2015 7:21 PM	06/29/2015 7:42 PM	0 Hours, 21 Minutes	Peak Reliability	WECC	Washington	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - Severe Weather	0	0
2015	6	06/30/2015 10:50 AM	07/01/2015 9:00 PM	34 Hours, 10 Minutes	Pacific Gas & Electric Co	WECC	California	Public appeal to reduce the use of electricity - Severe Weather	Unknown	Unknown
2015	6	06/30/2015 2:00 PM	06/30/2015 9:00 PM	7 Hours, 0 Minutes	California ISO	WECC	California	Public appeal to reduce the use of electricity - Severe Weather	Unknown	Unknown
2015	7	07/03/2015 5:17 PM	07/03/2015 11:30 PM	6 Hours, 13 Minutes	ERCOT	TRE	Texas	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident - System Operations	350	30000
2015	7	07/13/2015 2:14 PM	07/16/2015 6:00 AM	63 Hours, 46 Minutes	Duke Energy Ohio Inc	RFC	Ohio, Kentucky	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	480	68339
2015	7	07/13/2015 7:40 PM	07/15/2015 12:15 PM	40 Hours, 35 Minutes	American Electric Power - (RFC Reliability Region)	RFC	Virginia	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	52739
2015	7	07/14/2015 3:29 PM	07/15/2015 11:55 AM	20 Hours, 26 Minutes	Entergy Services, Inc.	SPP	Arkansas	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident - Severe Weather	Unknown	Unknown
2015	7	07/14/2015 8:00 PM	07/15/2015 9:23 AM	13 Hours, 23 Minutes	Southern Company	SERC	Alabama	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	366	111644
2015	7	07/15/2015 2:00 AM	07/15/2015 2:55 AM	0 Hours, 55 Minutes	California Department of Water Resources	WECC	California	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident - System Operations	360	0
2015	7	07/16/2015 4:45 PM	07/16/2015 5:48 PM	1 Hours, 3 Minutes	American Electric Power - (SPP Reliability Region)	SPP	Texas	Load shedding of 100 Megawatts or more implemented under emergency operational policy - System Operations	117	17311
2015	7	07/18/2015 2:00 AM	07/19/2015 7:00 AM	29 Hours, 0 Minutes	Northern States Power Co	MRO	Henepin and Ramsey County, Minnesota	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	250	250000
2015	7	07/18/2015 6:26 PM	07/18/2015 9:03 PM	2 Hours, 37 Minutes	Pacific Gas & Electric Co	WECC	California	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - System Operations	30	70
2015	7	07/18/2015 7:59 PM	07/18/2015 10:45 PM	2 Hours, 46 Minutes	Pacific Gas & Electric Co	WECC	California	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	160	78164
2015	7	07/21/2015 12:47 PM	07/21/2015 1:12 PM	0 Hours, 25 Minutes	Peak Reliability	WECC	Washington	Load shedding of 100 Megawatts or more implemented under emergency operational policy - System Operations	200	Unknown

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2015

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2015	7	07/27/2015 3:52 AM	07/27/2015 4:36 AM	0 Hours, 44 Minutes	Pacific Gas & Electric Co	WECC	California	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - System Operations	Unknown	484
2015	7	07/28/2015 12:05 PM	07/28/2015 12:26 PM	0 Hours, 21 Minutes	Puerto Rico Electric Power Authority	N/A	Puerto Rico	System-wide voltage reductions of 3 percent or more - System Operations	150	Unknown
2015	7	07/29/2015 4:45 PM	07/29/2015 9:00 PM	4 Hours, 15 Minutes	Long Island Power Authority	NPCC	New York	Fuel supply emergencies that could impact electric power system adequacy or reliability - System Operations	500	0
2015	7	07/30/2015 9:50 AM	07/30/2015 7:00 PM	9 Hours, 10 Minutes	ERCOT	TRE	Texas	Public appeal to reduce the use of electricity - System Operations	Unknown	Unknown
2015	7	07/31/2015 10:55 AM	. .	. Hours, . Minutes	Peak Reliability	WECC	Washington	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational - System Operations	9	0
2015	8	08/02/2015 5:45 PM	08/04/2015 3:00 AM	33 Hours, 15 Minutes	Consumers Energy Co	RFC	Emmet County, Grand Traverse County, Leelanau County, Kalkaska County, Benzie County, Manistee County, Wexford County, Missaukee County, Mecosta County, Michigan	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	162000
2015	8	08/03/2015 12:30 AM	08/03/2015 2:00 AM	1 Hours, 30 Minutes	Exelon Corporation / ComEd	RFC	Illinois	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	115000
2015	8	08/03/2015 1:00 AM	08/05/2015 12:00 AM	47 Hours, 0 Minutes	Detroit Edison Co	RFC	Michigan	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	72520
2015	8	08/04/2015 7:17 AM	08/05/2015 12:52 PM	29 Hours, 35 Minutes	ISO New England	NPCC	Massachusetts and Rhode Island	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	132000
2015	8	08/11/2015 7:30 PM	08/13/2015 4:05 AM	32 Hours, 35 Minutes	CenterPoint Energy	TRE	Houston, Texas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	100000
2015	8	08/13/2015 3:15 PM	08/13/2015 7:00 PM	3 Hours, 45 Minutes	ERCOT	TRE	Williamson County, Texas	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system - Other	Unknown	Unknown
2015	8	08/27/2015 9:51 PM	08/28/2015 6:00 PM	20 Hours, 9 Minutes	Puerto Rico Electric Power Authority	WECC	Puerto Rico	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident / Loss of electric service to more than 50,000 customers for 1 hour or more - System Operations	360	Unknown
2015	8	08/29/2015 10:00 AM	. .	. Hours, . Minutes	Peak Reliability	WECC	Washington	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	500000
2015	8	08/29/2015 11:00 AM	09/04/2015 3:00 PM	148 Hours, 0 Minutes	Puget Sound Energy	WECC	King County, Skagit County, Whatcom County, Kitsap County, Pierce County, Thurston County, Island County, Washington	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	250	250000
2015	8	08/29/2015 1:00 PM	08/31/2015 7:00 AM	42 Hours, 0 Minutes	Seattle City Light	WECC	King County, Washington	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	1200	64000
2015	9	09/03/2015 2:33 AM	09/03/2015 6:25 AM	3 Hours, 52 Minutes	Lansing Board of Water & Light	RFC	Michigan	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	50114
2015	9	09/20/2015 1:12 PM	09/20/2015 1:44 PM	0 Hours, 32 Minutes	California ISO	WECC	California	Load shedding of 100 Megawatts or more implemented under emergency operational policy - System Operations	150	Unknown
2015	10	10/13/2015 10:25 AM	10/13/2015 6:00 PM	7 Hours, 35 Minutes	ERCOT	TRE	Texas	Public appeal to reduce the use of electricity - Other	Unknown	Unknown
2015	10	10/13/2015 4:32 PM	10/13/2015 8:39 PM	4 Hours, 7 Minutes	California ISO	WECC	California	Public appeal to reduce the use of electricity - Other	41788	Unknown
2015	10	10/18/2015 7:00 AM	10/18/2015 11:29 PM	16 Hours, 29 Minutes	Pacific Gas & Electric Co	WECC	Central Coast area, California	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	88	55677
2015	10	10/23/2015 9:42 AM	10/23/2015 1:26 PM	3 Hours, 44 Minutes	Puerto Rico Electric Power Authority	N/A	Puerto Rico	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational / Load shedding of 100 Megawatts or more implemented under emergency operational policy / System-wide voltage reductions of 3 percent of more / Loss of electric service to more than 50,000 customers for 1 hour or more - System Operations	500	300000
2015	10	10/31/2015 12:45 AM	11/01/2015 4:05 PM	39 Hours, 20 Minutes	CenterPoint Energy	TRE	Harris County, Texas	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	130252
2015	11	11/17/2015 9:00 AM	. .	. Hours, . Minutes	Snohomish County PUD No 1	WECC	Washington: Snohomish County;	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	900	89000
2015	11	11/17/2015 10:00 AM	. .	. Hours, . Minutes	Puget Sound Energy	WECC	Washington	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	300000
2015	11	11/17/2015 1:30 PM	. .	. Hours, . Minutes	Avista Corp	WECC	Washington: Stevens County, Lincoln County, Adams County, Whitman County, Spokane County; Idaho: Bonner County, Kootenai County, Shoshone County, Benewah County, Idaho County;	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	182000
2015	11	11/21/2015 8:30 PM	11/23/2015 1:00 AM	28 Hours, 30 Minutes	Detroit Edison Co	RFC	Michigan	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	60000

Table B.1 Major Disturbances and Unusual Occurrences, Year-to-Date 2015

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2015	11	11/28/2015 6:00 AM	. .	. Hours, . Minutes	Oklahoma Gas & Electric Co	SPP	Oklahoma	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	35000
2015	11	11/28/2015 6:00 AM	11/30/2015 1:00 PM	55 Hours, 0 Minutes	Southwest Power Pool, Inc.	SPP	Oklahoma	Loss of electric service to more than 50,000 customers for 1 hour or more - Severe Weather	Unknown	55609
2015	11	11/29/2015 4:48 PM	11/29/2015 6:20 PM	1 Hours, 32 Minutes	Puerto Rico Electric Power Authority	N/A	Puerto Rico	System-wide voltage reductions of 3 percent or more - System Operations	0	0
2015	11	11/30/2015 6:18 AM	11/30/2015 9:18 PM	15 Hours, 0 Minutes	Puerto Rico Electric Power Authority	N/A	Puerto Rico	System-wide voltage reductions of 3 percent or more - System Operations	100	86559

Note: Customers affected are estimates and are preliminary.Source: Form OE-417, 'Electric Emergency Incident and Disturbance Report.'

Table B.2 Major Disturbances and Unusual Occurrences, 2014

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2014	1	01/06/2014 7:01 AM	01/07/2014 9:00 AM	25 Hours, 59 Minutes	ERCOT	TRE	Texas	Public Appeal due to Severe Weather - Cold	N/A	N/A
2014	1	01/06/2014 7:50 PM	01/06/2014 8:44 PM	0 Hours, 54 Minutes	PPL Electric Utilities Corp	RFC	Pennsylvania	Voltage Reduction due to Severe Weather - Cold	Unknown	Unknown
2014	1	01/06/2014 7:50 PM	01/06/2014 8:44 PM	0 Hours, 54 Minutes	PJM Interconnection	RFC	Unknown	Voltage Reduction due to Severe Weather - Cold	Unknown	Unknown
2014	1	01/06/2014 7:50 PM	01/06/2014 8:44 PM	0 Hours, 54 Minutes	Potomac Electric Power Co	RFC	District of Columbia	Voltage Reduction due to Severe Weather - Cold	Unknown	Unknown
2014	1	01/06/2014 7:50 PM	01/06/2014 8:49 PM	0 Hours, 59 Minutes	UGI Utilities, Inc	RFC	Pennsylvania	Voltage Reduction due to Severe Weather - Cold	200	62000
2014	1	01/06/2014 7:52 PM	01/06/2014 8:45 PM	0 Hours, 53 Minutes	Delmarva Power & Light Company	RFC	Delaware	Voltage Reduction due to Severe Weather - Cold	Unknown	Unknown
2014	1	01/06/2014 8:45 PM	01/07/2014 9:00 PM	24 Hours, 15 Minutes	PJM Interconnection	RFC	Unknown	Public Appeal due to Severe Weather - Cold	Unknown	Unknown
2014	1	01/06/2014 10:00 PM	01/06/2014 10:01 PM	0 Hours, 1 Minutes	Louisville Gas & Electric Co	RFC	Kentucky	Public Appeal due to Severe Weather - Cold	Unknown	Unknown
2014	1	01/07/2014 6:00 AM	01/07/2014 8:30 AM	2 Hours, 30 Minutes	Memphis Light Gas and Water Division	SERC	Tennessee	Public Appeal due to Severe Weather - Cold	Unknown	Unknown
2014	1	01/07/2014 6:00 AM	01/07/2014 8:30 AM	2 Hours, 30 Minutes	Tennessee Valley Authority	SERC	Northeast Tennessee	Public Appeal due to Severe Weather - Cold	Unknown	Unknown
2014	1	01/07/2014 7:58 AM	01/07/2014 11:00 AM	3 Hours, 2 Minutes	Duke Energy Progress	SERC	North Carolina	Voltage Reduction; Public Appeal due to Severe Weather - Cold	14435	Unknown
2014	1	01/07/2014 9:30 AM	01/08/2014 9:30 AM	24 Hours, 0 Minutes	Duke Energy Carolinas	SERC	Piedmont North Carolina, Piedmont South Carolina	Fuel Supply Emergency due to Severe Weather - Cold	Unknown	Unknown
2014	1	01/07/2014 10:59 AM	01/09/2014 9:00 AM	46 Hours, 1 Minutes	Prairie Power, Inc.	RFC	Illinois	Fuel Supply Emergency - Natural Gas	N/A	N/A
2014	1	01/07/2014 4:15 PM	01/08/2014 1:20 PM	21 Hours, 5 Minutes	Duke Energy Progress	SERC	North Carolina	Public Appeal due to Severe Weather - Cold	Unknown	Unknown
2014	1	01/07/2014 6:00 PM	01/07/2014 11:00 PM	5 Hours, 0 Minutes	South Carolina Electric and Gas	SERC	South Carolina	Voltage Reduction; Public Appeal; Load Shed 100+MW due to Severe Weather - Cold	4853	677858
2014	1	01/07/2014 9:00 PM	01/08/2014 9:00 AM	12 Hours, 0 Minutes	PJM Interconnection	RFC	Unknown	Public Appeal due to Severe Weather - Cold	Unknown	Unknown
2014	1	01/08/2014 5:00 AM	01/08/2014 6:30 AM	1 Hours, 30 Minutes	American Electric Power	RFC	Unknown	Voltage Reduction due to Severe Weather - Cold	576	Unknown
2014	1	01/08/2014 6:00 AM	01/08/2014 9:00 AM	3 Hours, 0 Minutes	South Carolina Electric and Gas	SERC	South Carolina	Voltage Reduction; Public Appeal; Load Shed 100+MW due to Severe Weather - Cold	4545	677858
2014	1	01/17/2014 10:30 AM	01/28/2014 9:00 AM	262 Hours, 30 Minutes	Prairie Power, Inc.	RFC	Illinois	Fuel Supply Emergency - Natural Gas	Unknown	Unknown
2014	1	01/18/2014 9:00 AM	01/18/2014 9:45 AM	0 Hours, 45 Minutes	ERCOT	TRE	Texas	Public Appeal to Reduce Electricity Usage	Unknown	Unknown
2014	1	01/18/2014 5:39 PM	. .	. Hours, . Minutes	First Energy Solutions Corp.	RFC	Unknown	Electrical System Islanding	Unknown	Unknown
2014	1	01/23/2014 4:00 AM	01/24/2014 12:00 PM	32 Hours, 0 Minutes	Memphis Light Gas and Water Division	SERC	Tennessee	Public Appeal due to Severe Weather - Cold	Unknown	Unknown
2014	1	01/23/2014 1:04 PM	01/24/2014 9:00 AM	19 Hours, 56 Minutes	PJM Interconnection	RFC	Maryland	Public Appeal due to Severe Weather - Cold	Unknown	Unknown
2014	1	01/23/2014 4:00 PM	01/24/2014 12:00 PM	20 Hours, 0 Minutes	Tennessee Valley Authority	SERC	Tennessee	Public Appeal due to Severe Weather - Cold	Unknown	Unknown
2014	1	01/24/2014 12:00 AM	. .	. Hours, . Minutes	We Energies	RFC	Wisconsin	Fuel Supply Emergency - Coal	Unknown	
2014	1	01/27/2014 2:20 PM	01/28/2014 9:00 PM	30 Hours, 40 Minutes	PJM Interconnection	RFC	Maryland	Public Appeal due to Severe Weather - Cold	Unknown	Unknown
2014	2	02/05/2014 12:00 AM	02/09/2014 6:00 PM	114 Hours, 0 Minutes	FirstEnergy Corp: Potomac Edison	RFC	Maryland, West Virginia	Severe Weather - Snow/Ice	Unknown	101580
2014	2	02/05/2014 1:00 AM	02/09/2014 8:40 PM	115 Hours, 40 Minutes	FirstEnergy Corp: Met-Ed	RFC	Pennsylvania	Severe Weather - Snow/Ice	Unknown	144000
2014	2	02/05/2014 5:00 AM	02/05/2014 5:01 AM	0 Hours, 1 Minutes	Exelon Corporation/PECO	RFC	Pennsylvania	Severe Weather - Snow/Ice	Unknown	715000
2014	2	02/05/2014 7:00 AM	02/23/2014 7:00 AM	432 Hours, 0 Minutes	Upstate New York Power Producers	NPCC	New York	Fuel Supply Emergency - Coal	300	Unknown
2014	2	02/05/2014 7:35 AM	02/07/2014 4:03 AM	44 Hours, 28 Minutes	PPL Electric Utilities Corp	RFC	Lancaster Region, Pennsylvania	Severe Weather - Snow/Ice	Unknown	62159
2014	2	02/05/2014 8:05 AM	02/05/2014 8:06 AM	0 Hours, 1 Minutes	Baltimore Gas & Electric Company	RFC	Baltimore, Maryland	Severe Weather - Ice	800	181000
2014	2	02/06/2014 1:00 PM	02/06/2014 10:00 PM	9 Hours, 0 Minutes	California ISO	WECC	California	Fuel Supply Emergency - Natural Gas	4000	Unknown
2014	2	02/06/2014 1:05 PM	02/06/2014 7:15 PM	6 Hours, 10 Minutes	Pacific Gas & Electric Co	WECC	Northern California	Fuel Supply Emergency - Natural Gas	160	Unknown
2014	2	02/06/2014 1:58 PM	02/06/2014 8:40 PM	6 Hours, 42 Minutes	American Electric Power	TRE	Rio Grande Valley Texas	Public Appeal to Reduce Electricity Usage	Unknown	Unknown
2014	2	02/06/2014 2:15 PM	02/06/2014 7:39 PM	5 Hours, 24 Minutes	Southern California Edison	WECC	California	Fuel Supply Emergency - Natural Gas	611	Unknown
2014	2	02/06/2014 3:35 PM	02/07/2014 11:30 AM	19 Hours, 55 Minutes	ERCOT	TRE	ERCOT Region Texas	Public Appeal to Reduce Electricity Usage	Unknown	Unknown
2014	2	02/07/2014 7:00 AM	03/21/2014 8:00 AM	1,009 Hours, 0 Minutes	Somerset Operating Company, LLC	NPCC	Niagara County New York	Fuel Supply Emergency - Coal	675	Unknown
2014	2	02/07/2014 4:30 PM	02/08/2014 9:00 AM	16 Hours, 30 Minutes	ERCOT	TRE	ERCOT Region Texas	Public Appeal to Reduce Electricity Usage	Unknown	Unknown
2014	2	02/07/2014 4:50 PM	02/07/2014 8:30 PM	3 Hours, 40 Minutes	American Electric Power	TRE	Texas	Public Appeal to Reduce Electricity Usage	Unknown	Unknown
2014	2	02/12/2014 7:48 AM	02/15/2014 4:30 AM	68 Hours, 42 Minutes	Southern Company	SERC	Northern/Northeastern Georgia	Severe Weather - Snow/Ice	1246	373835
2014	2	02/12/2014 11:03 AM	02/15/2014 8:40 AM	69 Hours, 37 Minutes	South Carolina Electric and Gas	SERC	South Carolina	Severe Weather - Snow/Ice	700	120124
2014	2	02/12/2014 12:10 PM	02/15/2014 3:20 PM	75 Hours, 10 Minutes	Duke Energy Progress	SERC	North Carolina	Severe Weather - Snow/Ice	Unknown	200000
2014	2	02/20/2014 4:40 PM	02/21/2014 11:59 PM	31 Hours, 19 Minutes	Ameren Missouri	SERC	Missouri, Illinois	Severe Weather - Snow/Ice	Unknown	66000
2014	2	02/21/2014 2:53 AM	02/21/2014 9:00 PM	18 Hours, 7 Minutes	Southern Company	SERC	Northern/Northeastern Georgia	Severe Weather - Thunderstorms/High Winds	221	66445
2014	3	03/02/2014 7:00 PM	03/04/2014 9:00 AM	38 Hours, 0 Minutes	ERCOT	TRE	ERCOT Region Texas	Public Appeal due to Severe Weather - Cold	N/A	N/A
2014	3	03/03/2014 1:48 AM	03/03/2014 1:49 AM	0 Hours, 1 Minutes	Public Utility District #1 of Chelan County (CHPD)	WECC	Mid-Columbia River Generation, Washington	Fuel Supply Emergency - Hydro	630	Unknown
2014	3	03/03/2014 6:40 AM	03/03/2014 3:28 PM	8 Hours, 48 Minutes	Tennessee Valley Authority	SERC	Tennessee	Severe Weather - Winter Storm	Unknown	65904
2014	3	03/04/2014 9:06 AM	03/17/2014 9:06 AM	312 Hours, 0 Minutes	Wisconsin Public Service Corp	MRO	Weston, Wisconsin	Fuel Supply Emergency - Coal	Unknown	Unknown
2014	3	03/07/2014 3:30 AM	03/07/2014 9:00 PM	17 Hours, 30 Minutes	Duke Energy Carolinas	SERC	Triad, North Carolina	Severe Weather - Winter Storm	1500	370900
2014	3	03/12/2014 7:35 PM	03/13/2014 12:00 PM	16 Hours, 25 Minutes	Duke Energy Carolinas	SERC	North Carolina	Severe Weather - High Winds	250	61377
2014	3	03/26/2014 1:37 PM	03/26/2014 2:33 PM	0 Hours, 56 Minutes	Peak Reliability	WECC	Montana	Electrical System Separation (Islanding)	Unknown	Unknown
2014	3	03/31/2014 3:41 PM	03/31/2014 8:08 PM	4 Hours, 27 Minutes	Puerto Rico Electric Power Authority	N/A	Puerto Rico	System Wide Voltage Reduction	Unknown	Unknown
2014	4	04/03/2014 12:00 AM	. .	. Hours, . Minutes	City of Garland / Texas Municipal Power Agency	TRE	Texas	Fuel Supply Emergency - Coal	Unknown	Unknown
2014	4	04/03/2014 2:45 PM	04/09/2014 11:53 AM	141 Hours, 8 Minutes	We Energies	MRO	Wisconsin	Fuel Supply Emergency - Coal	Unknown	Unknown
2014	4	04/04/2014 3:30 AM	04/04/2014 8:15 AM	4 Hours, 45 Minutes	Entergy Services, Inc.	SERC	Central Arkansas	Severe Weather - Wind	Unknown	57200
2014	4	04/08/2014 11:09 AM	04/08/2014 11:20 AM	0 Hours, 11 Minutes	Puerto Rico Electric Power Authority	N/A	Puerto Rico	Voltage Reduction	Unknown	Unknown
2014	4	04/12/2014 6:15 PM	04/14/2014 9:00 AM	38 Hours, 45 Minutes	Consumers Energy	RFC	Western and Central Michigan	Severe Weather - Thunderstorms	Unknown	50000
2014	4	04/12/2014 8:00 PM	04/15/2014 7:30 PM	71 Hours, 30 Minutes	Detroit Edison Company	RFC	Michigan	Severe Weather	Unknown	164000
2014	4	04/23/2014 7:45 PM	04/23/2014 8:37 PM	0 Hours, 52 Minutes	MISO / Entergy Transmission	SERC	Baton Rouge, Louisiana	Load shedding of 100 Megawatts	163	28000
2014	4	04/24/2014 3:02 PM	04/24/2014 5:13 PM	2 Hours, 11 Minutes	Peak Reliability	WECC	Alberta, Canada	Electrical System Separation (Islanding)	Unknown	Unknown
2014	4	04/27/2014 9:15 AM	. .	. Hours, . Minutes	Peak Reliability	WECC	Alberta, Canada	Electrical System Separation (Islanding)	9750	4000000
2014	4	04/29/2014 9:37 AM	05/01/2014 9:00 AM	47 Hours, 23 Minutes	Tennessee Valley Authority	SERC	Northeastern Mississippi, Northern Alabama	Severe Weather - Thunderstorms	Unknown	57000
2014	4	04/29/2014 11:30 PM	04/29/2014 12:30 PM	-11 Hours, 0 Minutes	Southern Company	SERC	Mississippi, Alabama	Severe Weather - Thunderstorms	355	106648
2014	4	04/30/2014 3:50 AM	04/30/2014 2:00 PM	10 Hours, 10 Minutes	Southern Company	SERC	Alabama, Florida, Georgia	Severe Weather - Thunderstorms	296	89000
2014	5	05/09/2014 6:00 PM	05/11/2014 1:00 PM	43 Hours, 0 Minutes	Vectren Energy Delivery of Indiana	RFC	Indiana	Severe Weather - Heavy Winds	Unknown	56000

Table B.2 Major Disturbances and Unusual Occurrences, 2014

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2014	5	05/14/2014 3:34 PM	. .	. Hours, . Minutes	San Diego Gas & Electric Company	WECC	San Diego & Orange Counties, California	Public Appeal to Reduce Electricity Usage - Wild Fires	N/A	N/A
2014	5	05/15/2014 10:43 AM	. .	. Hours, . Minutes	San Diego Gas & Electric Co	WECC	San Diego & Orange Counties, California	Public Appeal to Reduce Electricity Usage - Wild Fires	3300	1400000
2014	5	05/16/2014 10:43 AM	05/16/2014 9:00 PM	10 Hours, 17 Minutes	San Diego Gas & Electric Co	WECC	San Diego & Orange Counties, California	Public Appeal to Reduce Electricity Usage - Wild Fires	3900	1400000
2014	5	05/26/2014 12:31 PM	05/26/2014 1:18 PM	0 Hours, 47 Minutes	Peak Reliability	WECC	British Columbia & Alberta, Canada	Electrical System Separation (Islanding)	Unknown	Unknown
2014	6	06/03/2014 3:32 PM	06/03/2014 3:59 PM	0 Hours, 27 Minutes	Peak Reliability	WECC	Alberta, Canada	Electrical System Islanding	338	N/A
2014	6	06/05/2014 3:00 AM	06/07/2014 11:45 PM	68 Hours, 45 Minutes	Memphis Light Gas and Water Division	SERC	Shelby County, Tennessee	Severe Weather - Thunderstorms	494	38500
2014	6	06/05/2014 1:06 PM	06/05/2014 1:07 PM	0 Hours, 1 Minutes	Tennessee Valley Authority	SERC	West Tennessee	Severe Weather - Thunderstorms	Unknown	56475
2014	6	06/06/2014 1:00 PM	. .	. Hours, . Minutes	Luminant Energy Company, LLC	ERCOT	Texas	Fuel Supply Emergency - Coal	Unknown	Unknown
2014	6	06/07/2014 11:00 PM	06/08/2014 5:30 AM	6 Hours, 30 Minutes	Southern Company	SERC	North and Central , Alabama	Severe Weather - Thunderstorms	217	65000
2014	6	06/09/2014 11:07 AM	06/09/2014 11:30 AM	0 Hours, 23 Minutes	Peak Reliability	WECC	Alberta, Canada	Electrical System Islanding	Unknown	Unknown
2014	6	06/10/2014 9:50 PM	06/11/2014 2:30 PM	16 Hours, 40 Minutes	American Electric Power	RFC	West Virginia	Severe Weather - Thunderstorms	Unknown	66383
2014	6	06/15/2014 12:00 AM	06/15/2014 1:00 AM	1 Hours, 0 Minutes	Xcel Energy	MRO	Central Minnesota	Severe Weather - Thunderstorms	Unknown	55951
2014	6	06/18/2014 5:00 PM	06/20/2014 3:00 PM	46 Hours, 0 Minutes	Detroit Edison Co	RFC	Southeast Michigan	Severe Weather - Thunderstorms	Unknown	138802
2014	6	06/27/2014 1:21 PM	. .	. Hours, . Minutes	We Energies	MRO	Wisconsin	Fuel Supply Emergency - Coal	Unknown	Unknown
2014	6	06/30/2014 5:55 PM	07/01/2014 2:53 AM	8 Hours, 58 Minutes	We Energies	MRO	Southeast Wisconsin	Severe Weather - Thunderstorms	424	120000
2014	6	06/30/2014 8:00 PM	07/02/2014 6:30 PM	46 Hours, 30 Minutes	Exelon Corporation/ComEd	RFC	Illinois	Severe Weather - Thunderstorms	Unknown	420000
2014	6	06/30/2014 11:20 PM	07/01/2014 5:00 PM	17 Hours, 40 Minutes	Northern Indiana Public Service Company	RFC	North Central Indiana	Severe Weather - Thunderstorms	Unknown	127000
2014	7	07/01/2014 3:30 AM	. .	. Hours, . Minutes	Consumers Energy Co	RFC	Southwest Michigan	Severe Weather - Thunderstorms	Unknown	51000
2014	7	07/01/2014 4:00 AM	07/03/2014 11:30 PM	67 Hours, 30 Minutes	Detroit Edison Co	RFC	Southeast Michigan	Severe Weather - Thunderstorms	Unknown	140000
2014	7	07/01/2014 5:00 AM	07/02/2014 2:00 AM	21 Hours, 0 Minutes	American Electric Power	RFC	Indiana, Michigan	Severe Weather - Thunderstorms	Unknown	57237
2014	7	07/02/2014 8:39 AM	07/28/2014 3:13 PM	630 Hours, 34 Minutes	We Energies	MRO	Wisconsin	Fuel Supply Emergency - Coal	Unknown	Unknown
2014	7	07/03/2014 6:00 PM	07/06/2014 12:00 PM	66 Hours, 0 Minutes	Exelon Corporation/PECO	RFC	Pennsylvania	Severe Weather - Thunderstorms	Unknown	298165
2014	7	07/03/2014 10:55 PM	07/04/2014 1:50 AM	2 Hours, 55 Minutes	ISO New England	NPCC	Vermont, New Hampshire, Maine, Rhode Island, Massachusetts, Connecticut	Severe Weather - Thunderstorms	Unknown	64000
2014	7	07/08/2014 5:30 PM	07/10/2014 3:00 PM	45 Hours, 30 Minutes	PPL Electric Utilities Corp	RFC	Central and Northeastern Pennsylvania	Severe Weather - Thunderstorms	Unknown	66000
2014	7	07/08/2014 5:30 PM	07/12/2014 11:20 PM	101 Hours, 50 Minutes	FirstEnergy Corp: Potomac Edison	RFC	Maryland, West Virginia	Severe Weather - Thunderstorms	Unknown	96000
2014	7	07/08/2014 5:30 PM	07/12/2014 11:30 PM	102 Hours, 0 Minutes	FirstEnergy Corp: Mon Power	RFC	West Virginia	Severe Weather - Thunderstorms	Unknown	71000
2014	7	07/08/2014 6:00 PM	07/11/2014 5:53 PM	71 Hours, 53 Minutes	FirstEnergy Corp: Met-Ed	RFC	Eastern Pennsylvania	Severe Weather - Thunderstorms	Unknown	69000
2014	7	07/08/2014 7:21 PM	07/11/2014 7:00 AM	59 Hours, 39 Minutes	Niagara Mohawk Power Corporation (dba National Grid)	NPCC	Upstate New York	Severe Weather - Thunderstorms	Unknown	65000
2014	7	07/08/2014 8:30 PM	07/11/2014 11:00 PM	74 Hours, 30 Minutes	Exelon Corporation/PECO	RFC	Pennsylvania	Severe Weather - Thunderstorms	Unknown	260000
2014	7	07/08/2014 9:31 PM	. .	. Hours, . Minutes	Baltimore Gas & Electric Company	RFC	Maryland	Severe Weather - Thunderstorms	Unknown	56600
2014	7	07/23/2014 7:14 PM	07/24/2014 12:23 AM	5 Hours, 9 Minutes	American Electric Power	SERC	Arkansas, Louisiana	Severe Weather - Thunderstorms	Unknown	57299
2014	7	07/24/2014 4:29 PM	07/24/2014 11:32 PM	7 Hours, 3 Minutes	Southern California Edison	WECC	California	Load shedding of 100 Megawatts	126	26856
2014	7	07/27/2014 5:00 PM	07/28/2014 11:00 PM	30 Hours, 0 Minutes	Detroit Edison Co	RFC	Southeast Michigan	Severe Weather - Thunderstorms	Unknown	156611
2014	7	07/27/2014 11:00 PM	07/28/2014 4:00 AM	5 Hours, 0 Minutes	California Department of Water Resources	WECC	Central California	Uncontrolled Loss of 300 Megawatts	480	1
2014	8	08/13/2014 6:08 AM	08/13/2014 6:34 AM	0 Hours, 26 Minutes	Peak Reliability	WECC	Alberta, Canada	Electrical System Separation (Islanding)	370	Unknown
2014	8	08/20/2014 1:21 AM	08/20/2014 1:41 AM	0 Hours, 20 Minutes	Peak Reliability	WECC	Alberta, Canada	Electrical System Separation (Islanding)	Unknown	Unknown
2014	8	08/23/2014 4:39 PM	08/24/2014 1:46 AM	9 Hours, 7 Minutes	Illinois Municipal Electric Agency	RFC	City of Highland, Illinois	Operational Failure of Electrical System	31	6549
2014	8	08/24/2014 3:20 AM	08/25/2014 7:05 AM	27 Hours, 45 Minutes	PG&E	WECC	North of San Francisco, California	Earthquake	95	70000
2014	8	08/26/2014 3:30 PM	. .	. Hours, . Minutes	Detroit Edison Co	RFC	Southeast Michigan	Severe Weather - Thunderstorms	Unknown	Unknown
2014	9	09/05/2014 4:30 PM	09/06/2014 2:00 PM	21 Hours, 30 Minutes	Exelon Corporation / ComEd	RFC	Illinois	Severe Weather - Thunderstorms	Unknown	180400
2014	9	09/05/2014 7:14 PM	09/06/2014 1:00 PM	17 Hours, 46 Minutes	Consumers Energy	RFC	Lower Peninsula of Michigan	Severe Weather - Thunderstorms	50	60000
2014	9	09/05/2014 8:00 PM	. .	. Hours, . Minutes	Detroit Edison Co	RFC	Michigan	Severe Weather - Thunderstorms	Unknown	324000
2014	9	09/09/2014 8:18 AM	09/09/2014 11:59 PM	15 Hours, 41 Minutes	Peak Reliability	WECC	Alberta, Canada	Electrical System Separation (Islanding)	Unknown	Unknown
2014	9	09/11/2014 4:56 AM	09/11/2014 5:37 AM	0 Hours, 41 Minutes	Peak Reliability	WECC	Alberta, Canada	Electrical System Separation (Islanding)	Unknown	Unknown
2014	9	09/14/2014 9:50 PM	09/17/2014 3:08 PM	65 Hours, 18 Minutes	Portland General Electric	WECC	Oregon	Electrical System Separation (Islanding)	1	123
2014	9	09/19/2014 2:20 PM	09/23/2014 1:10 PM	94 Hours, 50 Minutes	Portland General Electric	WECC	Estacada, Oregon	Electrical System Separation (Islanding)	1	123
2014	9	09/22/2014 11:00 AM	09/22/2014 11:01 AM	0 Hours, 1 Minutes	Minnesota Power Inc	MRO	Northeast Minnesota	Fuel Supply Emergency - Coal	1000	140000
2014	10	10/02/2014 4:00 PM	10/07/2014 10:00 AM	114 Hours, 0 Minutes	Oncor Electric Delivery Company LLC	TRE	Texas	Severe Weather - Thunderstorms	Unknown	500000
2014	10	10/02/2014 10:15 PM	. .	. Hours, . Minutes	Entergy Services, Inc.	SERC	Arkansas	Severe Weather - Thunderstorms	Unknown	67300
2014	10	10/06/2014 10:52 AM	10/07/2014 12:52 AM	14 Hours, 0 Minutes	CenterPoint Energy	TRE	Houston, Texas	Severe Weather - Thunderstorms	292	129237
2014	10	10/08/2014 4:47 PM	10/08/2014 6:29 PM	1 Hours, 42 Minutes	ERCOT	TRE	Rio Grande Valley Texas	Public Appeal to Reduce Electricity Usage; Load Shed of 100 MW	Unknown	Unknown
2014	10	10/08/2014 4:49 PM	10/08/2014 6:23 PM	1 Hours, 34 Minutes	American Electric Power - Texas	TRE	Rio Grande Valley Texas	Public Appeal to Reduce Electricity Usage; Load Shed of 100 MW	585	120000
2014	10	10/09/2014 9:27 AM	. .	. Hours, . Minutes	American Electric Power	TRE	Rio Grande Valley Texas	Public Appeal to Reduce Electricity Usage	Unknown	2800
2014	10	10/13/2014 12:45 PM	10/13/2014 4:15 PM	3 Hours, 30 Minutes	Entergy Services, Inc.	SERC	Louisiana	Severe Weather - Thunderstorms	Unknown	68600
2014	10	10/14/2014 5:44 AM	10/14/2014 5:50 PM	12 Hours, 6 Minutes	Southern Company	SERC	Alabama, Florida, Georgia	Severe Weather - Thunderstorms	191	57475
2014	10	10/14/2014 6:20 PM	10/14/2014 6:28 PM	0 Hours, 8 Minutes	Puerto Rico Electric Power Authority	N/A	Puerto Rico	Voltage Reduction	Unknown	Unknown
2014	10	10/22/2014 10:46 PM	10/22/2014 10:47 PM	0 Hours, 1 Minutes	ISO New England	NPCC	New Hampshire, Maine, Massachusetts, Rhode Island, Connecticut, Vermont	Severe Weather	Unknown	66650
2014	10	10/25/2014 4:00 PM	10/25/2014 10:00 PM	6 Hours, 0 Minutes	Portland General Electric Co	WECC	Greater Portland and Salem, Oregon	Severe Weather - Wind	216	78000
2014	10	10/25/2014 6:00 PM	. .	. Hours, . Minutes	Puget Sound Energy	WECC	King County, Thurston County and Kitsap County, Washington	Severe Weather - Wind	154	96000
2014	11	11/02/2014 1:46 PM	. .	. Hours, . Minutes	ISO New England	NPCC	Massachusetts, Maine, Vermont, New Hampshire, Rhode Island, Connecticut	Severe Weather - Winter Storm	Unknown	63719

Table B.2 Major Disturbances and Unusual Occurrences, 2014

Year	Month	Event Date and Time	Restoration Date and Time	Duration	Utility/Power Pool	NERC Region	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected
2014	11	11/11/2014 6:00 PM	11/14/2014 3:00 PM	69 Hours, 0 Minutes	Puget Sound Energy	WECC	Washington	Severe Weather - Wind	132	68000
2014	11	11/14/2014 9:50 AM	11/14/2014 1:18 PM	3 Hours, 28 Minutes	Portland General Electric Co	WECC	Estacada, Oregon	Electrical System Islanding	1	123
2014	11	11/24/2014 12:00 AM	. .	. Hours, . Minutes	Southwestern Public Service Company	SPP	Nebraska, Kansas, Texas, Arkansas, Louisiana, New Mexico	Fuel Supply Emergency - Coal	Unknown	Unknown
2014	11	11/24/2014 12:00 PM	11/27/2014 1:00 PM	73 Hours, 0 Minutes	Detroit Edison Co	RFC	Michigan	Severe Weather - Wind	Unknown	186154
2014	11	11/26/2014 5:50 PM	11/28/2014 7:00 AM	37 Hours, 10 Minutes	ISO New England	NPCC	New Hampshire, Massachusetts, Maine, Rhode Island, Connecticut, Vermont	Severe Weather - Winter Storm	Unknown	79530
2014	12	12/11/2014 6:40 AM	. .	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	Northern California	Severe Weather- High Winds	Unknown	Unknown
2014	12	12/11/2014 7:21 AM	12/11/2014 9:53 PM	14 Hours, 32 Minutes	Pacific Gas & Electric Co	WECC	San Francisco, California	Distribution Interruption - Unknown Cause	225	75000
2014	12	12/11/2014 4:05 PM	12/11/2014 9:00 PM	4 Hours, 55 Minutes	Portland General Electric Co	WECC	Portland, Oregon	Severe Weather- High Winds	250	85470
2014	12	12/11/2014 5:00 PM	12/12/2014 10:00 AM	17 Hours, 0 Minutes	Puget Sound Energy	WECC	Kitsap, Thurston, Whatcom counties Washington	Severe Weather- High Winds	116	264000
2014	12	12/11/2014 11:15 PM	. .	. Hours, . Minutes	Pacific Gas & Electric Co	WECC	Northern California	Severe Weather- High Winds	Unknown	Unknown
2014	12	12/30/2014 1:08 PM	01/01/2015 4:50 PM	51 Hours, 42 Minutes	Pacific Gas & Electric Co	WECC	Northern California	Severe Weather- High Winds	127	84500

Note: Customers affected are estimates and are preliminary.Source: Form OE-417, 'Electric Emergency Incident and Disturbance Report.'

Appendix C

Technical notes

This appendix describes how the U. S. Energy Information Administration (EIA) collects, estimates, and reports electric power data in the EPM.

Data quality

The EPM is prepared by the Office of Electricity, Renewables & Uranium Statistics (ERUS), Energy Information Administration (EIA), U. S. Department of Energy. Quality statistics begin with the collection of the correct data. To assure this, ERUS performs routine reviews of the data collected and the forms on which it is collected. Additionally, to assure that the data are collected from the correct parties, ERUS routinely reviews the frames for each data collection.

Automatic, computerized verification of keyed input, review by subject matter specialists, and follow-up with nonrespondents assure quality statistics. To ensure the quality standards established by the EIA, formulas that use the past history of data values in the database have been designed and implemented to check data input for errors automatically. Data values that fall outside the ranges prescribed in the formulas are verified by telephoning respondents to resolve any discrepancies. All survey nonrespondents are identified and contacted.

Reliability of data

There are two types of errors possible in an estimate based on a sample survey: sampling and non-sampling. Sampling errors occur because observations are made only on a sample, not on the entire population. Non-sampling errors can be attributed to many sources in the collection and processing of data. The accuracy of survey results is determined by the joint effects of sampling and non-sampling errors. Monthly sample survey data have both sampling and non-sampling error. Annual survey data are collected by a census and are not subject to sampling error.

Non-sampling errors can be attributed to many sources: (1) inability to obtain complete information about all cases in the sample (i.e., nonresponse); (2) response errors; (3) definitional difficulties; (4) differences in the interpretation of questions; (5) mistakes in recording or coding the data obtained; and (6) other errors of collection, response, coverage, and estimation for missing data. Note that for the cutoff sampling and model-based regression (ratio) estimation that we use, data 'missing' due to nonresponse, and data 'missing' due to being out-of-sample are treated in the same manner. Therefore missing data may be considered to result in sampling error, and variance estimates reflect all missing data.

Although no direct measurement of the biases due to non-sampling errors can be obtained, precautionary steps were taken in all phases of the frame development and data collection, processing, and tabulation processes, in an effort to minimize their influence. See the Data Processing and Data System Editing section for each EIA form for an in-depth discussion of how the sampling and non-sampling errors are handled in each case.

Relative Standard Error: The relative standard error (RSE) statistic, usually given as a percentage, describes the magnitude of sampling error that might reasonably be incurred. The RSE is the square root of the estimated variance, divided by the variable of interest. The variable of interest may be the ratio of two variables, or a single variable.

The sampling error may be less than the non-sampling error. In fact, large RSE estimates found in preliminary work with these data have often indicated non-sampling errors, which were then identified and corrected. Non-sampling errors may be attributed to many sources, including the response errors, definitional difficulties, differences in the interpretation of questions, mistakes in recording or coding data obtained, and other errors of collection, response, or coverage. These non-sampling errors also occur in complete censuses.

Using the Central Limit Theorem, which applies to sums and means such as are applicable here, there is approxi-mately a 68 percent chance that the true total or mean is within one RSE of the estimated total or mean. Note that reported RSEs are always estimates themselves, and are usually, as here, reported as percentages. As an example, suppose that a net generation from coal value is estimated to be 1,507 million kilowatthours with an estimated RSE of 4.9 percent. This means that, ignoring any non-sampling error, there is approximately a 68 percent chance that the true million kilowatthour value is within approximately 4.9 percent of 1,507 million kilowatthours (that is, between 1,433 and 1,581 million kilowatthours). Also under the Central Limit Theorem, there is approxi-mately a 95 percent chance that the true mean or total is within 2 RSEs of the estimated mean or total.

Note that there are times when a model may not apply, such as in the case of a substantial reclassification of sales, when the relationship between the variable of interest and the regressor data does not hold. In such a case, the new information may represent only itself, and such numbers are added to model results when estimating totals. Further, there are times when sample data may be known to be in error, or are not reported. Such cases are treated as if they were never part of the model-based sample, and values are imputed. Experiments were done to see if nonresponse should be treated differently, but it was decided to treat those cases the same as out-of-sample cases.

Relative Standard Error With Respect to a Superpopulation: The RSESP statistic is similar to the RSE (described above). Like the RSE, it is a statistic designed to estimate the variability of data and is usually given as a percentage. However, where the RSE is only designed to estimate the magnitude of sampling error, the RSESP more fully reflects the impact of variability from sampling and non-sampling errors. This is a more complete measure than RSE in that it can measure statistical variability in a complete census in addition to a sample21,24. In addition to being a measure of data variability, the RSESP can also be useful in comparing different models that are applied to the same set of data22. This capability is used to test different regression models for imputation and prediction. This testing may include considerations such as comparing different regressors, the comparative reliability of different monthly samples, or the use of different geographical strata or groupings for a given model. For testing purposes, ERUS typically uses recent historical data that have been finalized. Typically, time-series graphics showing two or more models or samples are generated showing the RSESP values over time. In selecting models, consideration is given to total survey error as well as any apparent differences in robustness.

Imputation: For monthly data, if the reported values appeared to be in error and the data issue could not be resolved with the respondent, or if the facility was a nonrespondent, a regression methodology is used to impute for the facility. The same procedure is used to estimate ("predict") data for facilities not in the monthly sample. The regression methodology relies on other data to make estimates for erroneous or missing responses.

Estimation for missing monthly data is accomplished by relating the observed data each month to one or more other data elements (regressors) for which we generally have an annual census. Each year, when new annual regressor data are available, recent monthly relationships are updated, causing slight revisions to estimated monthly results. These revisions are made as soon as the annual data are released.

The basic technique employed is described in the paper "Model-Based Sampling and Inference16," on the EIA website. Additional references can be found on the InterStat website (http://interstat.statjournals.net/). The basis for the current methodology involves a 'borrowing of strength' technique for small domains.

Data revision procedure

ERUS has adopted the following policy with respect to the revision and correction of recurrent data in energy publications:

- Annual survey data are disseminated either as preliminary or final when first appearing in a data product. Data initially released as preliminary will be so noted in the data product. These data are typically released as final by the next dissemination of the same product; however, if final data are available at an earlier interval they may be released in another product.
- All monthly survey data are first disseminated as preliminary. These data are revised after the prior year's data are finalized and are disseminated as revised preliminary. No revisions are made to the published data before this or subsequent to these data being finalized unless significant errors are discovered.
- After data are disseminated as final, further revisions will be considered if they make a difference of 1 percent or greater at the national level. Revisions for differences that do not meet the 1 percent or greater threshold will be determined by the Office Director. In either case, the proposed revision will be subject to the EIA revision policy concerning how it affects other EIA products.
- The magnitudes of changes due to revisions experienced in the past will be included periodically in the data products, so that the reader can assess the accuracy of the data.

Data sources for Electric Power Monthly

Data published in the EPM are compiled from the following sources:

- Form EIA-923, "Power Plant Operations Report,"
- Form EIA 826, "Monthly Electric Utility Sales and Revenues with State Distributions Report,"
- Form EIA 860, "Annual Electric Generator Report,"
- Form EIA-860M, "Monthly Update to the Annual Electric Generator Report," and

- Form EIA 861, "Annual Electric Power Industry Report."

For access to these forms and their instructions, please see:
http://www.eia.gov/cneaf/electricity/page/forms.html.

In addition to the above-named forms, the historical data published in the EPM for periods prior to 2008 are compiled from the following sources:

- FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants,"
- Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report,"
- Form EIA-759, "Monthly Power Plant Report,"
- Form EIA-860A, "Annual Electric Generator Report–Utility,"
- Form EIA-860B, "Annual Electric Generator Report–Nonutility,"
- Form EIA-900, "Monthly Nonutility Power Report,"
- Form EIA-906, "Power Plant Report," and
- Form EIA-920, "Combined Heat and Power Plant Report."

See Appendix A of the historical Electric Power Annual reports to find descriptions of forms that are no longer in use. The publications can be found from the top of the current EPA under previous issues: http://www.eia.gov/electricity/annual.

Rounding rules for data: To round a number to n digits (decimal places), add one unit to the nth digit if the (n+1) digit is 5 or larger and keep the nth digit unchanged if the (n+1) digit is less than 5. The symbol for a number rounded to zero is (*).

Percent difference: The following formula is used to calculate percent differences:

$$\text{Percent Difference} = \left(\frac{x\ (t_2) - x\ (t_1)}{|\ x\ (t_1)\ |} \right) x\, 100,$$

where $x\ (t_1)$ and $x\ (t_2)$ denote the quantity at year t_1 and subsequent year t_2.

Meanings of symbols appearing in tables: The following symbols have the meaning described below:

P Indicates a preliminary value.

NM Data value is not meaningful, either (1) when compared to the same value for the previous time period, or (2) when a data value is not meaningful due to having a high Relative Standard Error (RSE).

Form EIA-826

The Form EIA 826, "Monthly Electric Utility Sales and Revenues with State Distributions Report," is a monthly collection of data from a sample of approximately 500 of the largest electric utilities (primarily investor owned and publicly owned) as well as a census of energy service providers with sales to ultimate consumers in deregulated States. Form EIA-861, with approximately 3,300 respondents, serves as a frame from which the Form 826 sample is drawn. Based on this sample, a model is used to estimate for the entire universe of U.S. electric utilities.

Instrument and design history: The collection of electric power sales data and related information began in the early 1940's and was established as FPC Form 5 by FPC Order 141 in 1947. In 1980, the report was revised with only selected income items remaining and became the FERC Form 5. The Form EIA 826, "Electric Utility Company Monthly Statement," replaced the FERC Form 5 in January 1983. In January 1987, the "Electric Utility Company Monthly Statement" was changed to the "Monthly Electric Utility Sales and Revenue Report with State Distributions." The title was changed again in January 2002 to "Monthly Electric Utility Sales and Revenues with State Distributions Report" to become consistent with other EIA report titles. The Form EIA 826 was revised in January 1990, and some data elements were eliminated.

In 1993, EIA for the first time used a model sample for the Form EIA 826. A stratified random sample, employing auxiliary data, was used for each of the four previous years. The sample for the Form EIA 826 was designed to obtain estimates of electricity sales and average price of electricity to ultimate consumers at the State level by end use sector.

Starting with data for January 2001, the restructuring of the electric power industry was taken into account by forming three schedules on the Form EIA-826. Schedule 1, Part A is for full service utilities that operate as in the past. Schedule 1, Part B is for electric service providers only, and Schedule 1, Part C is for those utilities providing distribution service for those on Schedule 1, Part B. In addition, Schedule 1 Part D is for those energy providers to ultimate consumers or power marketers that provide bundled service. Also, the Form EIA-826 frame was modified to include all investor-owned electric utilities and a sample of companies from other ownership classes. A new method of estimation was implemented at this same time. (See EPM April 2001, p.1.)

With the October 2004 issue of the EPM, EIA published for the first time preliminary electricity sales data for the Transportation Sector. These data are for electricity delivered to and consumed by local, regional, and metropolitan transportation systems. The data being published for the first time in the October EPM included July 2004 data as well as year-to-date. EIA's efforts to develop these new data have identified anomalies in several States and the District of Columbia. Some of these anomalies are caused by issues such as: 1) Some respondents have classified themselves as outside the realm of the survey. The Form EIA-826 collects data from those respondents providing electricity and other services to the ultimate end users. EIA has experienced specific situations where, although the respondents' customers are the ultimate end users, particular end users qualify under wholesale rate schedules. 2) The Form EIA-826 is a cutoff sample and not intended to be a census.

Beginning with 2008 data and some annual 2007 data, the Form EIA-923 replaced Forms EIA-906, EIA-920, EIA-423, and FERC 423. In addition, several sections of the discontinued Form EIA-767 have been included in either the Form EIA-860 or Form EIA-923. See the following link for a detailed explanation. http://www.eia.gov/cneaf/electricity/2008forms/consolidate.html

The legislative authority to collect these data is defined in the Federal Energy Administration Act of 1974 (Public Law 93-275, Sec. 13(b), 5(a), 5(b), 52).

Data processing and data system editing: Monthly Form EIA-826 submission is available via an Internet Data Collection (IDC) system. The completed data are due to EIA by the last calendar day of the month following the reporting month. Nonrespondents are contacted to obtain the data. The data are edited and additional checks are completed. Following verification, imputation is run, and tables and text of the aggregated data are produced for inclusion in the EPM.

Imputation: Regression prediction, or imputation, is done for entities not in the monthly sample and for any nonrespondents. Regressor data for Schedule 1, Part A is the average monthly sales or revenue from the most recent finalized data from survey Form EIA-861. Beginning with January 2008 data and the finalized 2007 data, the regressor data for Schedule 1 Parts B and C is the prior month's data.

Formulas and methodologies: The Form EIA 826 data are collected by end-use sector (residential, commercial, industrial, and transportation) and State. Form EIA 861 data are used as the frame from which the sample is selected and in some instances also as regressor data. Updates are made to the frame to reflect mergers that affect data processing.

With the revised definitions for the commercial and industrial sectors to include all data previously reported as 'other' data except transportation, and a separate transportation sector, all responses that would formerly have been reported under the "other" sector are now to be reported under one of the sectors that currently exist. This means there is probably a lower correlation, in general, between, say, commercial Form EIA-826 data for 2004 and commercial Form EIA-861 data for 2003 than there was between commercial Form EIA-826 data for 2003 and commercial Form EIA-861 data for 2002 or earlier years, although commercial and industrial definitions have always been somewhat nebulous due to power companies not having complete information on all customers.

Data submitted for January 2004 represent the first time respondents were to provide data specifically for the transportation end-use sector.

During 2003 transportation data were collected annually through Form EIA-861. Beginning in 2004 the transportation data were collected on a monthly basis via Form EIA-826. In order to develop an estimate of the monthly transportation data for 2003, values for both sales of electricity to ultimate customers and revenue from sales of electricity to ultimate customers were estimated using the 2004 monthly profile for the sales and revenues from the data collected via Form EIA-826. All monthly non-transportation data for 2003 (i.e. street lighting, etc.), which were previously reported in the "other" end-use sector on the Form EIA-826 have been prorated into the Commercial and Industrial end-use sectors based on the 2003 Form EIA-861 profile.

A monthly distribution factor was developed for the monthly data collected in 2004 (for the months of January through November). The transportation sales and revenues for December 2004 were assumed to be equivalent to the transportation sales and revenues for November 2004. The monthly distribution factors for January through November were applied to the annual values for transportation sales and revenues collected via Form EIA-861 to develop corresponding 2003 monthly values. The eleven month estimated totals from January through November 2003 were subtracted from the annual values obtained from Form EIA-861 in order to obtain the December 2003 values.

Data from the Form EIA-826 are used to determine estimates by sector at the State, Census division, and national level. State level sales and revenues estimates are first calculated. Then the ratio of revenue divided by sales is calculated to estimate the price of electricity to ultimate consumers at the State level. The estimates are accumulated separately to produce the Census division and U.S. level estimates[1].

Some electric utilities provide service in more than one State. To facilitate the estimation, the State service area is actually used as the sampling unit. For each State served by each utility, there is a utility State part, or "State service area." This approach allows for an explicit calculation of estimates for sales, revenue, and average price of electricity to ultimate consumers by end use sector at State, Census division, and national level. Estimation procedures include imputation to account for nonresponse. Non-sampling error must also be considered. The non-sampling error is not estimated directly, although attempts are made to minimize the non-sampling error.

Average price of electricity to ultimate consumers represents the cost per unit of electricity sold and is calculated by dividing electric revenue from ultimate consumers by the corresponding sales of electricity. The average price of electricity to ultimate consumers is calculated for all consumers and for each end-use sector.

The electric revenue used to calculate the average price of electricity to ultimate consumers is the operating revenue reported by the electric utility. Operating revenue includes energy charges, demand charges, consumer service charges, environmental surcharges, fuel adjustments, and other miscellaneous charges. Electric utility operating revenues also include State and Federal income taxes and taxes other than income taxes paid by the utility.

The average price of electricity to ultimate consumers reported in this publication by sector represents a weighted average of consumer revenue and sales within sectors and across sectors for all consumers, and does not reflect the per kWh rate charged by the electric utility to the individual consumers. Electric utilities typically employ a number of rate schedules within a single sector. These alternative rate schedules reflect the varying consumption levels and patterns of consumers and their associated impact on the costs to the electric utility for providing electrical service.

Adjusting monthly data to annual data: As a final adjustment based on our most complete data, use is made of final Form EIA-861 data, when available. The annual totals for Form EIA-826 data by State and end-use sector are compared to the corresponding Form EIA-861 values for sales and revenue. The ratio of these two values in each case is then used to adjust each corresponding monthly value.

Sensitive data: Most of the data collected on the Form EIA-826 are not considered business sensitive. However, revenue, sales, and customer data collected from energy service providers (Schedule 1, Part B), which do not also provide energy delivery, are considered business sensitive and must adhere to EIA's "Policy on the Disclosure of Individually Identifiable Energy Information in the Possession of the EIA" (45Federal Register 59812 (1980)).

Form EIA-860

The Form EIA 860, "Annual Electric Generator Report," is a mandatory annual census of all existing and planned electric generating facilities in the United States with a total generator nameplate capacity of 1 or more megawatts. The survey is used to collect data on existing power plants and 10 year plans for constructing new plants, as well as generating unit additions, modifications, and retirements in existing plants. Data on the survey are collected at the generator level. Certain power plant environmental-related data are collected at the boiler level. These data include environmental equipment design parameters, boiler air emission standards, and boiler emission controls The Form EIA-860 is made available in January to collect data related to the previous year.

Instrument and design history: The Form EIA-860 was originally implemented in January 1985 to collect data as of year-end 1984. It was preceded by several Federal Power Commission (FPC) forms including the FPC Form 4, Form 12 and 12E, Form 67, and Form EIA-411. In January 1999, the Form EIA-860 was renamed the Form EIA-860A, "Annual Electric Generator Report – Utility" and was implemented to collect data from electric utilities as of January 1, 1999.

In 1989, the Form EIA-867, "Annual Nonutility Power Producer Report," was initiated to collect plant data on unregulated entities with a total generator nameplate capacity of 5 or more megawatts. In 1992, the reporting threshold of the Form EIA-867 was lowered to include all facilities with a combined nameplate capacity of 1 or more megawatts. Previously, data were collected every 3 years from facilities with a nameplate capacity between 1 and 5 megawatts. In 1998, the Form EIA-867, was renamed Form EIA-860B, "Annual Electric Generator Report – Nonutility." The Form EIA-860B was a mandatory survey of all existing and planned nonutility electric generating facilities in the United States with a total generator nameplate capacity of 1 or more megawatts.

Beginning with data collected for the year 2001, the infrastructure data collected on the Form EIA-860A and the Form EIA-860B were combined into the new Form EIA-860 and the monthly and annual versions of the Form EIA-906.

Starting with 2007, design parameters data formerly collected on Form EIA-767 were collected on Form EIA-860. These include design parameters associated with certain steam-electric plants' boilers, cooling systems, flue gas particulate collectors, flue gas desulfurization units, and stacks and flues.

The Federal Energy Administration Act of 1974 (Public Law 93-275) defines the legislative authority to collect these data.

Estimation of form eia-860 data: EIA received forms from all 18,151 existing generators in the 2010 Form EIA-860 frame, so no imputation was required.

Prime Movers: The Form EIA-860 sometimes represents a generator's prime mover by using the abbreviations in the table below.

Prime Mover Code	Prime Mover Description
BA	Energy Storage, Battery
CE	Energy Storage, Compressed Air
CP	Energy Storage, Concentrated Solar Power
FW	Energy Storage, Flywheel
PS	Energy Storage, Reversible Hydraulic Turbine (Pumped Storage)
ES	Energy Storage, Other
ST	Steam Turbine, including nuclear, geothermal and solar steam (does not include combined cycle)
GT	Combustion (Gas) Turbine (including jet engine design)
IC	Internal Combustion Engine (diesel, piston, reciprocating)
CA	Combined Cycle Steam Part
CT	Combined Cycle Combustion Turbine Part
CS	Combined Cycle Single Shaft
CC	Combined Cycle Total Unit
HA	Hydrokinetic, Axial Flow Turbine
HB	Hydrokinetic, Wave Buoy
HK	Hydrokinetic, Other
HY	Hydroelectric Turbine (including turbines associated with delivery of water by pipeline)
BT	Turbines Used in a Binary Cycle (including those used for geothermal applications)
PV	Photovoltaic
WT	Wind Turbine, Onshore
WS	Wind Turbine, Offshore
FC	Fuel Cell
OT	Other

Energy Sources: The Form EIA-860 sometimes represents the energy sources associated with generators by using the abbreviations and/or groupings in the table below.

Energy Source Grouping	Energy Source Code	Energy Source Description
Coal	ANT	Anthracite Coal
	BIT	Bituminous Coal
	LIG	Lignite Coal
	SUB	Subbituminous Coal
	SGC	Coal-Derived Synthesis Gas
	WC	Waste/Other Coal (including anthracite culm, bituminous gob, fine coal, lignite waste, waste coal)
Petroleum Products	DFO	Distillate Fuel Oil (including diesel, No. 1, No. 2, and No. 4 fuel oils)
	JF	Jet Fuel
	KER	Kerosene
	PC	Petroleum Coke
	PG	Gaseous Propane
	RFO	Residual Fuel Oil (including No. 5, and No. 6 fuel oils, and bunker C fuel oil)
	SG	Synthesis Gas from Petroleum Coke
	WO	Waste/Other Oil (including crude oil, liquid butane, liquid propane, naphtha, oil waste, re-refined motor oil, sludge oil, tar oil, or other petroleum-based liquid wastes)
Natural Gas and Other Gases	BFG	Blast Furnace Gas
	NG	Natural Gas
	OG	Other Gas
Nuclear	NUC	Nuclear (including Uranium, Plutonium, and Thorium)
Hydroelectric Conventional	WAT (Prime Mover = HY)	Water at a Conventional Hydroelectric Turbine, and water used in Wave Buoy Hydrokinetic Technology, Current Hydrokinetic Technology, and Tidal Hydrokinetic Technology
Hydroelectric Pumped Storage	WAT (Prime Mover = PS)	Pumping Energy for Reversible (Pumped Storage) Hydroelectric Turbine
Wood and Wood-Derived Fuels	WDS	Wood/Wood Waste Solids (including paper pellets, railroad ties, utility poles, wood chips, bark, and wood waste solids)
	WDL	Wood Waste Liquids (excluding Black Liquor but including red liquor, sludge wood, spent sulfite liquor, and other wood-based liquids)
	BLQ	Black Liquor
Other Biomass	AB	Agricultural By-Products
	MSW	Municipal Solid Waste
	OBG	Other Biomass Gas (including digester gas, methane, and other biomass gases)
	OBL	Other Biomass Liquids
	OBS	Other Biomass Solids
	LFG	Landfill Gas
	SLW	Sludge Waste
Other Renewable Energy Sources	SUN	Solar (including solar thermal)
	WND	Wind
	GEO	Geothermal
Other Energy Sources	PUR	Purchased Steam
	WH	Waste heat not directly attributed to a fuel source
	TDF	Tire-Derived Fuels
	MWH	Electricity used for energy storage
	OTH	Other

Sensitive data: The tested heat rate data collected on the Form EIA-860 are considered business sensitive.

Form EIA-860M

The Form EIA 860M, "Monthly Update to the Annual Electric Generator Report," is a mandatory monthly survey that collects data on the status of proposed new generators or changes to existing generators for plants that report on Form EIA-860.

The Form EIA-860M has a rolling frame based upon planned changes to capacity as reported on the previous Form EIA-860. Respondents are added to the frame 12 months prior to the expected effective date for all new units or expected retirement date for existing units. For all other types of capacity changes (including retirements, uprates, derates, repowering, or other modifications), respondents are added 1 month prior to the anticipated modification change date. Respondents are removed from the frame at the completion of the changes or if the change date is moved back so that the plant no longer qualifies to be in the frame. Typically, 150 to 200 utilities per month are required to report for 175 to 250 plants (including 250 to 400 generating units) on this form. The unit characteristics of interest are changes to the previously reported planned operating month and year, prime mover type, capacity, and energy sources.

Instrument and design history: The data collected on Form EIA-860M was originally collected via phone calls at the end of each month. During 2005, the Form EIA-860M was introduced as a mandatory form using the Internet Data Collection (IDC) system.

The legislative authority to collect these data is defined in the Federal Energy Administration Act of 1974 (Public Law 93-275, Sec. 13(b), 5(a), 5(b), 52).

Data processing and data system editing: Approximately 150 to 200 utilities are requested to provide data each month on the Form EIA 860M. These data are collected via the IDC system and automatically checked for certain errors. Most of the quality assurance issues are addressed by the respondents as part of the automatic edit check process. In some cases, respondents are subsequently contacted about their explanatory overrides to the edit checks.

Sensitive data: Data collected on the Form EIA-860M are not considered to be sensitive.

Form EIA-861

The Form EIA 861, "Annual Electric Power Industry Report," is a mandatory census of electric power industry participants in the United States. The survey is used to collect information on power sales and revenue data from approximately 3,300 respondents. About 3,200 are electric utilities and the remainder are nontraditional utilities such as energy service providers or the unregulated subsidiaries of electric utilities and power marketers.

Instrument and design history: The Form EIA 861 was implemented in January 1985 for collection of data as of year end 1984. The Federal Energy Administration Act of 1974 (Public Law 93 275) defines the legislative authority to collect these data.

Data processing and data system editing: The Form EIA 861 is made available to the respondents in January of each year to collect data as of the end of the preceding calendar year. The data are edited when entered into the interactive on line system. Internal edit checks are per-formed to verify that current data total across and between schedules, and are comparable to data reported the previous year. Edit checks are also performed to compare data reported on the Form EIA 861 and similar data reported on the Form EIA 826. Respondents are telephoned to obtain clarification of reported data and to obtain missing data.

Data for the Form EIA 861 are collected at the owner level from all electric utilities including energy service providers in the United States, its territories, and Puerto Rico. Form EIA 861 data in this report are for the United States only.

Average price of electricity to ultimate consumers represents the cost per unit of electricity sold and is calculated by dividing electric revenue from ultimate consumers by the corresponding sales of electricity. The average price of electricity to ultimate consumers is calculated for all consumers and for each end-use sector.

The electric revenue used to calculate the average price of electricity to ultimate consumers is the operating revenue reported by the electric power industry participant. Operating revenue includes energy charges, demand charges, consumer service charges, environmental surcharges, fuel adjustments, and other miscellaneous charges. Electric power industry participant operating revenues also include State and Federal income taxes and other taxes paid by the utility.

The average price of electricity to ultimate consumers reported in this publication by sector represents a weighted average of consumer revenue and sales, and does not equal the per kWh rate charged by the electric power industry participant to the individual consumers. Electric utilities typically employ a number of rate schedules within a single sector. These alternative rate schedules reflect the varying consumption levels and patterns of consumers and their associated impact on the costs to the electric power industry participant for providing electrical service.

Sensitive data: Data collected on the Form EIA-861 are not considered to be sensitive.

Form EIA-923

Form EIA-923, “Power Plant Operations Report,” is a monthly collection of data on receipts and cost of fossil fuels, fuel stocks, generation, consumption of fuel for generation, and environmental data (e.g. emission controls and cooling systems). Data are collected from a monthly sample of approximately 1,900 plants, which includes a census of nuclear and pumped-storage hydroelectric plants. In addition approximately 4,050 plants, representing all other generators 1 MW or greater, are collected annually. In addition to electric power generating plants, respondents include fuel storage terminals without

generating capacity that receive shipments of fossil fuels for eventual use in electric power generation. The monthly data are due by the last day of the month following the reporting period.

Receipts of fossil fuels, fuel cost and quality information, and fuel stocks at the end of the reporting period are all reported at the plant level. Plants that burn organic fuels and have a steam turbine capacity of at least 10 megawatts report consumption at the boiler level and generation at the generator level. For all other plants, consumption is reported at the prime-mover level. For these plants, generation is reported either at the prime-mover level or, for noncombustible sources (e.g. wind, nuclear), at the prime-mover and energy source level. The source and disposition of electricity is reported annually for nonutilities at the plant level as is revenue from sales for resale. Environmental data are collected annually from facilities that have a steam turbine capacity of at least 10 megawatts.

Instrument and design history:

Receipts and cost and quality of fossil fuels
On July 7, 1972, the Federal Power Commission (FPC) issued Order Number 453 enacting the New Code of Federal Regulations, Section 141.61, legally creating the FPC Form 423. Originally, the form was used to collect data only on fossil steam plants, but was amended in 1974 to include data on internal-combustion and combustion-turbine units. The FERC Form 423 replaced the FPC Form 423 in January 1983. The FERC Form 423 eliminated peaking units, for which data were previously collected on the FPC Form 423. In addition, the generator nameplate capacity threshold was changed from 25 megawatts to 50 megawatts. This reduction in coverage eliminated approximately 50 utilities and 250 plants. All historical FPC Form 423 data in this publication were revised to reflect the new generator-nameplate- capacity threshold of 50 or more megawatts reported on the FERC Form 423. In January 1991, the collection of data on the FERC Form 423 was extended to include combined cycle units. Historical data have not been revised to include these units. Starting with the January 1993 data, the FERC began to collect the data directly from the respondents.

The Form EIA-423 was originally implemented in January 2002 to collect monthly cost and quality data for fossil fuel receipts from owners or operators of nonutility electricity generating plants. Due to the restructuring of the electric power industry, many plants which had historically submitted this information for utility plants on the FERC Form 423 (see above) were being transferred to the nonutility sector. As a result, a large percentage of fossil fuel receipts were no longer being reported. The Form EIA-423 was implemented to fill this void and to capture the data associated with existing non-regulated power producers. Its design closely followed that of the FERC Form 423.

Both the Form EIA-423 and FERC Form 423 were superseded by Schedule 2 of the Form EIA-923 in January of 2008. At the time, the Form EIA-923 maintained the 50-megawatt threshold for these data. In January 2013, the threshold was changed to 200 megawatts for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. The requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts.

Not all data are collected monthly on the Form EIA-923. Beginning with 2008 data, a sample of the respondents report monthly, with the remainder reporting annually. Until January 2013, monthly fuel receipts values for the annual surveys were imputed via regression. Prior to 2008, Schedule 2 annual data were not collected or imputed.

Generation, consumption, and stocks

The Bureau of Census and the U.S. Geological Survey collected, compiled, and published data on the electric power industry prior to 1936. After 1936, the Federal Power Commission (FPC) assumed all data collection and publication responsibilities for the electric power industry and implemented the Form FPC-4. The Federal Power Act, Section 311 and 312, and FPC Order 141 defined the legislative authority to collect power production data. The Form EIA-759 replaced the Form FPC-4 in January 1982.

In 1996, the Form EIA-900 was initiated to collect sales for resale data from unregulated entities14. In 1998, the form was modified to collect sales for resale, gross generation, and sales to end user data. In 1999, the form was modified to collect net generation, consumption, and ending stock data15. In 2000, the form was modified to include the production of useful thermal output data.

In January 2001, Form EIA-906 superseded Forms EIA-759 and EIA-900. In January 2004, Form EIA-920 superseded Form EIA-906 for those plants defined as combined heat and power plants; all other plants that generate electricity continue to report on Form EIA-906. The Federal Energy Administration Act of 1974 (Public Law 93-275) defines the legislative authority to collect these data.

Forms EIA-906 and EIA-920 were superseded by survey Form EIA-923 beginning in January 2008 with the collection of annual 2007 data and monthly 2008 data.

Data processing and data system editing: Respondents are encouraged to enter data directly into a computerized database via the Internet Data Collection (IDC) system. A variety of automated quality control mechanisms are run during this process, such as range checks and comparisons with historical data. These edit checks are performed as the data are provided, and many problems that are encountered are resolved during the reporting process. Those plants that are unable to use the electronic reporting medium provide the data in hard copy, typically via fax. These data are manually entered into the computerized database. The data are subjected to the same edits as those that are electronically submitted.

If the reported data appear to be in error and the data issue cannot be resolved by follow up contact with the respondent, or if a facility is a nonrespondent, a regression methodology is used to impute for the facility. Beginning in January 2013, imputation is not performed for fuel receipts data reported on Schedule 2.

Imputation: For select survey data elements collected monthly, regression prediction, or imputation, is done for missing data, including non-sampled units and any non-respondents. For data collected annually, imputation is performed for non-respondents. For gross generation and total fuel

consumption, multiple regression is used for imputation (see discussion, above). Only approximately 0.02 percent of the national total generation for 2010 is imputed, although this will vary by State and energy source.

When gross generation is reported and net generation is not available, net generation is estimated by using a fixed ratio to gross generation by prime-mover type and installed environmental equipment. These ratios are:

Net Generation = (Factor) x Gross Generation
Prime Movers:
Combined Cycle Steam - 0.97
Combined Cycle Single Shaft - 0.97
Combined Cycle Combustion Turbine - 0.97
Compressed Air - 0.97
Fuel Cell - 0.99
Gas Turbine - 0.98
Hydroelectric Turbine - 0.99
Hydroelectric Pumped Storage - 0.99
Internal Combustion Engine - 0.98
Other - 0.97
Photovoltaic - 0.99
Steam Turbine - 0.97
Wind Turbine - 0.99
Environmental Equipment:
Flue Gas Desulfurization - 0.97
Flue Gas Particulate 0.99
All Others - 0.97

For stocks, a linear combination of the prior month's ending stocks value and the current month's consumption and receipts values are used.

Receipts of fossil fuels: Receipts data, including cost and quality of fuels, are collected at the plant level from selected electric generating plants and fossil-fuel storage terminals in the United States. These plants include independent power producers, electric utilities, and commercial and industrial combined heat and power producers. All plants with a total fossil-fueled nameplate capacity of 50 megawatts or more (excluding storage terminals, which do not produce electricity) were required to report receipts of fossil fuels. In January 2013, the threshold was changed to 200 megawatts for plants primarily fueled by natural gas, petroleum coke, distillate fuel oil, and residual fuel oil. The requirement to report self-produced and minor fuels, i.e., blast furnace gas, other manufactured gases, kerosene, jet fuel, propane, and waste oils was eliminated. The threshold for coal plants remained at 50 megawatts. The data on cost and quality of fuel shipments are used to produce aggregates and weighted averages for each fuel type at the state, Census division, and U.S. levels.

For coal, units for receipts are in tons and units for average heat contents (A) are in million Btu per ton. For petroleum, units for receipts are in barrels and units for average heat contents (A) are in million Btu per barrel.

For gas, units for receipts are in thousand cubic feet (Mcf) and units for average heat contents (A) are in million Btu per thousand cubic foot.

Power production, fuel stocks, and fuel consumption data: The Bureau of Census and the U.S. Geological Survey collected, compiled, and published data on the electric power industry prior to 1936. After 1936, the Federal Power Commission (FPC) assumed all data collection and publication responsibilities for the electric power industry and implemented the Form FPC-4. The Federal Power Act, Section 311 and 312, and FPC Order 141 defined the legislative authority to collect power production data. The Form EIA-759 replaced the Form FPC-4 in January 1982.

In 1996, the Form EIA-900 was initiated to collect sales for resale data from unregulated entities. In 1998, the form was modified to collect sales for resale, gross generation, and sales to end user data. In 1999, the form was modified to collect net generation, consumption, and ending stock data. In 2000, the form was modified to include the production of useful thermal output data.

In January 2001, Form EIA-906 superseded Forms EIA-759 and EIA-900. In January 2004, Form EIA-920 superseded Form EIA-906 for those plants defined as combined heat and power plants; all other plants that generate electricity continue to report on Form EIA-906. The Federal Energy Administration Act of 1974 (Public Law 93 275) defines the legislative authority to collect these data.

In January 2004, Form EIA-920 superseded Form EIA-906 for those plants defined as combined heat and power plants; all other plants that generate electricity continue to report on Form EIA-906.

In January 2008, Form EIA-923 superseded both the Forms EIA-906 and EIA-920 for the collection of these data.

Methodology to estimate biogenic and non-biogenic municipal solid waste[2]: Municipal solid waste (MSW) consumption for generation of electric power is split into its biogenic and non-biogenic components beginning with 2001 data by the following methodology:

The tonnage of MSW consumed is reported on the Form EIA-923. The composition of MSW and categorization of the components were obtained from the Environmental Protection Agency publication, *Municipal Solid Waste in the United States: 2005 Facts and Figures*. The Btu contents of the components of MSW were obtained from various sources.

The potential quantities of combustible MSW discards (which include all MSW material available for combustion with energy recovery, discards to landfill, and other disposal) were multiplied by their respective Btu contents. The EPA-based categories of MSW were then classified into renewable and non-renewable groupings. From this, EIA calculated how much of the energy potentially consumed from MSW was attributed to biogenic components and how much to non-biogenic components (see Tables 1 and 2, below). [3]

These values are used to allocate net generation published in the Electric Power Monthly generation tables. The tons of biogenic and non-biogenic components were estimated with the assumption that glass and metals were removed prior to combustion. The average Btu/ton for the biogenic and non-

biogenic components is estimated by dividing the total Btu consumption by the total tons. Published net generation attributed to biogenic MSW and non-biogenic MSW is classified under Other Renewables and Other, respectively.

Table 1. Btu consumption for biogenic and non-biogenic municipal solid waste (percent)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Biogenic	57	56	55	55	56	57	55	54	51	50
Non-biogenic	43	44	45	45	44	43	46	46	49	50

Table 2. Tonnage consumption for biogenic and non-biogenic municipal solid waste (percent)

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Biogenic	77	77	76	76	75	67	65	65	64	64
Non-biogenic	23	23	24	24	25	34	35	35	36	36

Useful thermal output: With the implementation of the Form EIA-923, "Power Plant Operations Report," in 2008, combined heat and power (CHP) plants are required to report total fuel consumed and electric power generation. Beginning with the January 2008 data, EIA will estimate the allocation of the total fuel consumed at CHP plants between electric power generation and useful thermal output.

First, an efficiency factor is determined for each plant and prime mover type. Based on data for electric power generation and useful thermal output collected in 2003 (on Form EIA-906, "Power Plant Report") efficiency was calculated for each prime mover type at a plant. The efficiency factor is the total output in Btu, including electric power and useful thermal output (UTO), divided by the total input in Btu. Electric power is converted to Btu at 3,412 Btu per kilowatthour.

Second, to calculate the amount of fuel for electric power, the gross generation in Btu is multiplied by the efficiency factor. The fuel for UTO is the difference between the total fuel reported and the fuel for electric power generation. UTO is calculated by multiplying the fuel for UTO by the efficiency factor.

In addition, if the total fuel reported is less than the estimated fuel for electric power generation, then the fuel for electric power generation is equal to the total fuel consumed, and the UTO will be zero.

Conversion of petroleum coke to liquid petroleum: The quantity conversion is 5 barrels (of 42 U.S. gallons each) per short ton (2,000 pounds).

Conversion of propane gas to liquid petroleum: The quantity conversion is 1.53 Mcf (thousand cubic feet) per barrel (or 42 U.S. gallons each).

Conversion of synthesis gas from coal to coal: The quantity conversion is 98 Mcf (thousand cubic feet) per short ton (2,000 pounds).

Conversion of synthesis gas from petroleum coke to petroleum coke: The quantity conversion is 107.42 Mcf (thousand cubic feet) per short ton (2,000 pounds).

Issues within historical data series:

Receipts and cost and quality of fossil fuels
Values for receipts of natural gas for 2001 forward do not include blast furnace gas or other gas.

Historical data collected on FERC Form 423 and published by EIA have been reviewed for consistency between volumes and prices and for their consistency over time. However, these data were collected by FERC for regulatory rather than statistical and publication purposes. EIA did not attempt to resolve any late filing issues in the FERC Form 423 data. In 2003, EIA introduced a procedure to estimate for late or non-responding entities due to report on the FERC Form 423. Due to the introduction of this procedure, 2003 and later data cannot be directly compared to previous years' data. In January 2013, this estimation procedure was dropped.

Prior to 2008, regulated plants reported receipts data on the FERC Form 423. These plants, along with unregulated plants, now report receipts data on Schedule 2 of Form EIA-923. Because FERC issued waivers to the FERC Form 423 filing requirements to some plants who met certain criteria, and because not all types of generators were required to report (only steam turbines and combined-cycle units reported), a significant number of plants either did not submit fossil fuel receipts data or submitted only a portion of their fossil fuel receipts. Since Form EIA-923 does not have exemptions based on generator type or reporting waivers, receipts data from 2008 and later cannot be directly compared to previous years' data for the regulated sector. Furthermore, there may be a notable increase in fuel receipts beginning with January 2008 data.

Starting with the revised data for 2008, tables for total receipts begin to reflect estimation for all plants with capacity over 1 megawatt, to be consistent with other electric power data. Previous receipts data published have been a legacy of their original collection as information for a regulatory agency, not as a survey to provide more meaningful estimates of totals for statistical purposes. Totals appeared to become smaller as more electric production came from unregulated plants, until the Form EIA-423 was created to help fill that gap. As a further improvement, estimation of all receipts for the universe normally depicted in the EPM (i.e., 1 megawatt and above), with associated relative standard errors, provides a more complete assessment of the market.

Generation and consumption
Beginning in 2008, a new method of allocating fuel consumption between electric power generation and useful thermal output (UTO) was implemented. This new methodology evenly distributes a combined heat and power (CHP) plant's losses between the two output products (electric power and UTO). In the historical data, UTO was consistently assumed to be 80 percent efficient and all other losses at the plant were allocated to electric power. This change causes the fuel for electric power to be decreased while the fuel for UTO is increased as both are given the same efficiency. This results in the appearance of an increase in efficiency of production of electric power between periods.

Sensitive data: Most of the data collected on the Form EIA-923 are not considered business sensitive. However, the cost of fuel delivered to nonutilities, commodity cost of fossil fuels, and reported fuel stocks at the end of the reporting period are considered business sensitive and must adhere to EIA's "Policy on the Disclosure of Individually Identifiable Energy Information in the Possession of the EIA" (45Federal Register 59812 (1980)).

Average Capacity Factors

This section describes the methodology for calculating capacity factors by fuel and technology type for operating electric power plants. Capacity factor is a measure (expressed as a percent) of how often an electric generator operates over a specific period of time, using a ratio of the actual output to the maximum possible output over that time period.

The capacity factor calculation only includes operating electric generators in the Electric Power Sector (sectors 1, 2 and 3) using the net generation reported on the Form EIA-923 and the net summer capacity reported on the Form EIA-860. The capacity factor for a particular fuel/technology type is given by:

$$CapacityFactor = \left(\frac{\sum_{x,m} Generation_{x,m}}{\sum_{x,m} Capacity_{x,m} * AvailableTime_{x,m}} \right)$$

Where x represents generators of that fuel/technology combination and m represents the period of time (month or year). Generation and capacity are specific to a generator, and the generator is categorized by its primary fuel type as reported on the EIA-860. All generation from that generator is included, regardless of other fuels consumed. Available time is also specific to the generator in order to account for differing online and retirement dates. Therefore, these published capacity factors will differ from a simple calculation using annual generation and capacity totals from the appropriate tables in this publication.

NERC classification

The Florida Reliability Coordinating Council (FRCC) separated itself from the Southeastern Electric Reliability Council (SERC) in the mid-1990s. In 1998, several utilities realigned from Southwest Power Pool (SPP) to SERC. Name changes altered both the Mid-Continent Area Power Pool (MAPP) to the Midwest Reliability Organization (MRO) and the Western Systems Coordinating Council (WSCC) to the Western Energy Coordinating Council (WECC). The MRO membership boundaries have altered over time, but WECC membership boundaries have not. The utilities in the associated regional entity identified as the Alaska System Coordination Council (ASCC) dropped their formal participation in NERC. Both the States of Alaska and Hawaii are not contiguous with the other continental States and have no electrical interconnections. At the close of calendar year 2005, the following reliability regional councils were dissolved: East Central Area Reliability Coordinating Agreement (ECAR), Mid-Atlantic Area Council (MAAC), and Mid-America Interconnected Network (MAIN).

On January 1, 2006, the ReliabilityFirst Corporation (RFC) came into existence as a new regional reliability council. Individual utility membership in the former ECAR, MAAC, and MAIN councils mostly shifted to RFC. However, adjustments in membership as utilities joined or left various reliability councils impacted MRO, SERC, and SPP. The Texas Regional Entity (TRE) was formed from a delegation of authority from NERC to handle the regional responsibilities of the Electric Reliability Council of Texas (ERCOT). The revised delegation agreements covering all the regions were approved by the Federal Energy Regulatory Commission on March 21, 2008. Reliability Councils that are unchanged include: Florida Reliability Coordinating Council (FRCC), Northeast Power Coordinating Council (NPCC), and the Western Energy Coordinating Council (WECC

The new NERC Regional Council names are as follows:

- Florida Reliability Coordinating Council (FRCC),
- Midwest Reliability Organization (MRO),
- Northeast Power Coordinating Council (NPCC),
- ReliabilityFirst Corporation (RFC),
- Southeastern Electric Reliability Council (SERC),
- Southwest Power Pool (SPP),
- Texas Regional Entity (TRE), and
- Western Energy Coordinating Council (WECC).

Business classification

Nonutility power producers consist of corporations, persons, agencies, authorities, or other legal entities that own or operate facilities for electric generation but are not electric utilities. This includes qualifying cogenerators, small power producer, and independent power producers. Furthermore, nonutility power producers do not have a designated franchised service area. In addition to entities whose primary business is the production and sale of electric power, entities with other primary business classifications can and do sell electric power. These can consist of manufacturing, agricultural, forestry, transportation, finance, service and administrative industries, based on the Office of Management and Budget's Standard Industrial Classification (SIC) Manual. In 1997, the SIC Manual name was changed to North American Industry Classification System (NAICS). The following is a list of the main classifications and the category of primary business activity within each classification.

Agriculture, Forestry, and Fishing

111 Agriculture production-crops
112 Agriculture production, livestock and animal specialties
113 Forestry
114 Fishing, hunting, and trapping
115 Agricultural services

Mining

211 Oil and gas extraction
2121 Coal mining
2122 Metal mining

2123 Mining and quarrying of nonmetallic minerals except fuels

Construction

23

Manufacturing

311 Food and kindred products
3122 Tobacco products
314 Textile and mill products
315 Apparel and other finished products made from fabrics and similar materials
316 Leather and leather products
321 Lumber and wood products, except furniture
322 Paper and allied products (other than 322122 or 32213)
322122 Paper mills, except building paper
32213 Paperboard mills
323 Printing and publishing
324 Petroleum refining and related industries (other than 32411)
32411 Petroleum refining
325 Chemicals and allied products (other than 325188, 325211, 32512, or 325311)
32512 Industrial organic chemicals
325188 Industrial Inorganic Chemicals
325211 Plastics materials and resins
325311 Nitrogenous fertilizers
326 Rubber and miscellaneous plastic products
327 Stone, clay, glass, and concrete products (other than 32731)
32731 Cement, hydraulic
331 Primary metal industries (other than 331111 or 331312)
331111 Blast furnaces and steel mills
331312 Primary aluminum
332 Fabricated metal products, except machinery and transportation equipment
333 Industrial and commercial equipment and components except computer equipment
3345 Measuring, analyzing, and controlling instruments, photographic, medical, and optical goods, watches and clocks
335 Electronic and other electrical equipment and components except computer equipment
336 Transportation equipment
337 Furniture and fixtures
339 Miscellaneous manufacturing industries

Transportation and Public Utilities

22 Electric, gas, and sanitary services
2212 Natural gas transmission
2213 Water supply
22131 Irrigation systems
22132 Sewerage systems
481 Transportation by air
482 Railroad transportation
483 Water transportation
484 Motor freight transportation and warehousing
485 Local and suburban transit and interurban highway passenger transport
486 Pipelines, except natural gas
487 Transportation services
491 United States Postal Service
513 Communications
562212 Refuse systems

Wholesale Trade

421 to 422

Retail Trade

441 to 454

Finance, Insurance, and Real Estate

521 to 533

Services

512 Motion pictures
514 Business services
514199 Miscellaneous services
541 Legal services
561 Engineering, accounting, research, management, and related services
611 Education services
622 Health services
624 Social services
712 Museums, art galleries, and botanical and zoological gardens
713 Amusement and recreation services
721 Hotels
811 Miscellaneous repair services
8111 Automotive repair, services, and parking
812 Personal services
813 Membership organizations
814 Private households

Public Administration

92

Multiple Survey Programs- Small Scale PV Solar Estimation of Generation

Monthly generation from small scale PV solar resources is an estimation of the generation produced from PV solar resources and not the results of a data collection effort for generation directly, with the exception of "Third Party Owned" or (TPO) solar installations which has direct data collection. TPO data however is not comprehensive. TPOs do not operate in every state, TPO collected data is not a large portion of the estimated amount, and the data has been collected for limited period of time. The generation estimate is based on data collected for PV solar capacity.

Capacity of PV solar resources is collected directly from respondents. These data are collected on several EIA forms and from several types of respondents. Monthly data for net-metered PV solar capacity is reported on the Form EIA-826. Form EIA-826 is a cutoff sample drawn from the annual survey Form EIA-861 which collects this data from all respondents. Using data from both of these surveys we have a regression model to impute for the non-sampled monthly capacity.

The survey instruments collect solar net metering capacity from reporting utilities by state and customer class. There are four customer classes: residential, commercial, industrial and transportation. However, the estimation process included only the residential, commercial and industrial customers.[1] Data for these customer classes were further classified by U.S. Census Regions, to ensure adequate number of customer observations in for each estimation group.

Estimation Model: The total PV capacity reported by utilities in the annual EIA-861 survey is the single primary input (regressor) to the monthly estimation of PV capacity by state. The model tested for each Census Region was of the form:

$$y_{i_{2015,m}} = \beta_1 x_{i_{2013}} + w_i^{-1/2} e_i \text{, where}$$

$x_{i_{2013}}$ is the ith utility's 2013 (or the last published year) solar PV capacity

$y_{i_{2015,m}}$ is the ith utility's month m, 2015 (or the current year) reported solar PV capacity

w_i is the weight factor, which is the inverse of $x_{i_{2013}}$

β_1 is effectively the growth rate of reported month m solar PV capacity

e_i is the error term

The model checks for outliers and removes them from the regression equation inputs. The model calculates RSEs by sector, state, census region, and US total. Once we have imputed for all of the

monthly net-metered PV solar capacity we add to total net metered capacity, the PV solar capacity collected on the Form EIA-861 for distributed and dispersed resources that are not net metered.

We use a second model to estimate the generation using this capacity as an input. The original methodology was developed for the "Annual Energy Outlook" based on our "NEMS" modelled projections several years ago. The original method underwent a calibration project designed to develop PV production levels for the NEMS projections consistent with simulations of a National Renewable Energy Laboratory model called PVWatts, which is itself embedded in PC software under the umbrella of the NREL's System Advisor Model (SAM).

The PVWatts simulations require, panel azimuth orientations and tilts, something that the NEMS projections do not include. Call the combinations of azimuths and tilts "orientations." The orientation and solar insolation (specific to a location) have a direct effect on the PV production level. The calibration project selected the 100 largest population Metropolitan Statistical Areas (MSAs) and relied on weights derived from orientation data from California Solar Initiative dataset to develop typical outputs for each of the 100 MSAs. It then was expanded from an annual estimate to a monthly estimate. A further description of this model is located here. A listing of the MSAs are included in Appendix 1.

Using Form EIA-861 data for service territories, which lists the counties that each electric distribution company (EDC) provides service, and NREL solar insolation data by county a simple average of insolation values by EDC is calculated.

Using the estimation model, we produce by utility, by state and by sector an estimate of generation. All the utilities'' capacity and generation estimates are summed by state and sector and a KWh/KW rate by state and sector is calculated.

Capacity from the Form EIA-860 that is net metered is subtracted from the total capacity by state and sector as well as the capacity reported on the EIA-826 from TPOs, resulting in a new "net" capacity amount. This capacity amount is multiplied by the KWh/KW rate to produce the non-TPO generation estimate and then it is added to the TPO reported sales to ultimate customers from the EIA-826 to obtain a final estimate for generation and a blended KWh/KW rate is calculated. The estimate for generation is aggregated by US census regions and US totals. The RSEs for capacity are checked for level of error and if they pass, the summary data by state, US census region and US total are reported in the EPM.

Appendix 2 contains a flow diagram of the data inputs, data quality control checks and data analysis required to perform this estimation.

Appendix 1- MSAs

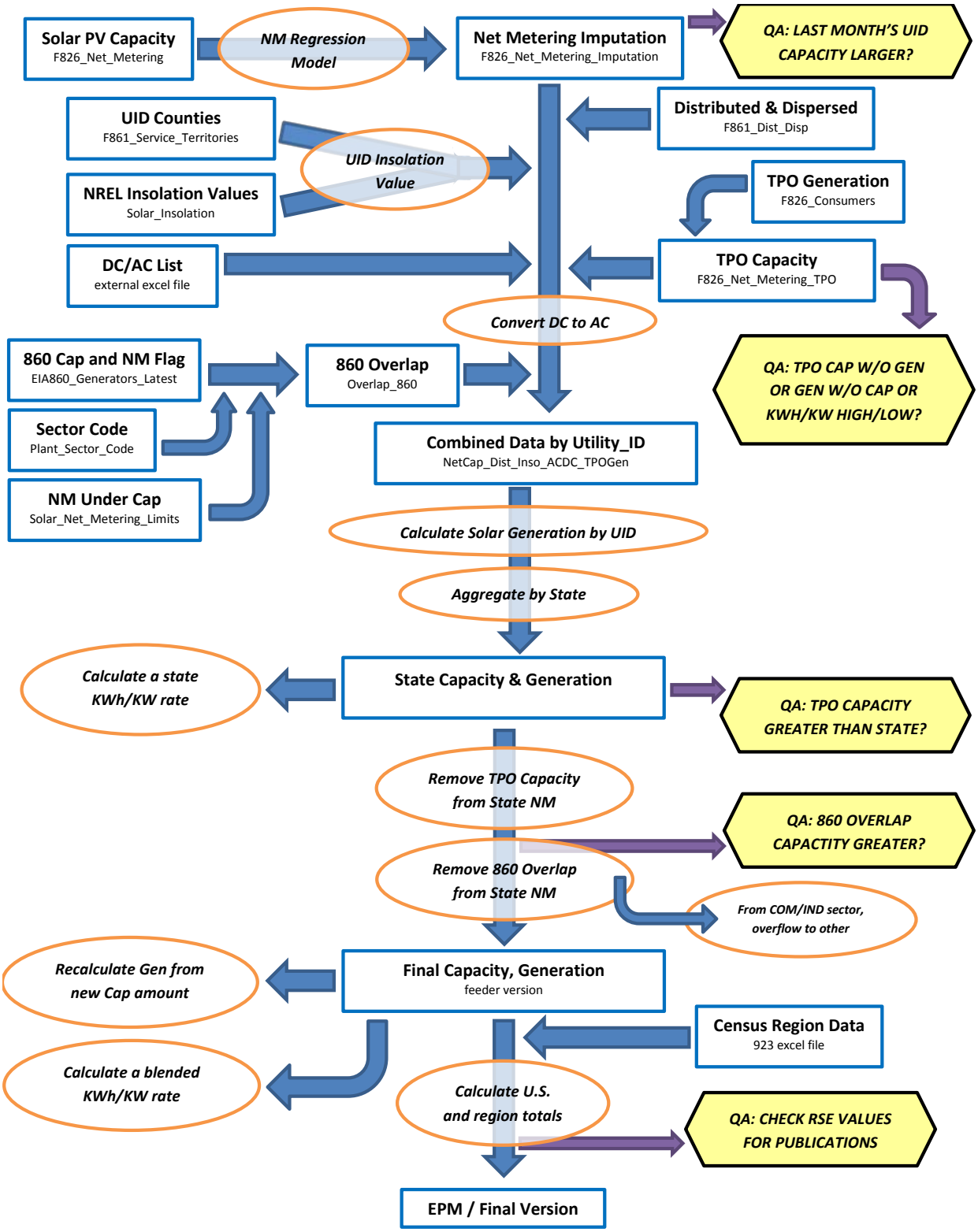
TMY3 (1991-2005) Weather Stations by MSA

Site	Weather Location	MSA
1	USA NY New York Central Park Obs.	New York-Newark-Jersey City, NY-NJ-PA MSA
2	USA CA Los Angeles Intl Airport	Los Angeles-Long Beach-Anaheim, CA MSA
3	USA IL Chicago Midway Airport	Chicago-Naperville-Elgin, IL-IN-WI MSA
4	USA TX Dallas-fort Worth Intl Airport	Dallas-Fort Worth-Arlington, TX MSA
5	USA TX Houston Bush Intercontinental	Houston-The Woodlands-Sugar Land, TX MSA
6	USA PA Philadelphia Int'l Airport	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD MSA
7	USA VA Washington Dc Reagan Airport	Washington-Arlington-Alexandria, DC-VA-MD-WV MSA
8	USA FL Miami Intl Airport	Miami-Fort Lauderdale-West Palm Beach, FL MSA
9	USA GA Atlanta Hartsfield Intl Airport	Atlanta-Sandy Springs-Roswell, GA MSA
10	USA MA Boston Logan Int'l Airport	Boston-Cambridge-Newton, MA-NH MSA
11	USA CA San Francisco Intl Airport	San Francisco–Oakland–Hayward, CA MSA
12	USA AZ Phoenix Sky Harbor Intl Airport	Phoenix-Mesa-Scottsdale, AZ MSA
13	USA CA Riverside Municipal Airport	Riverside-San Bernardino-Ontario, CA MSA
14	USA MI Detroit City Airport	Detroit-Warren-Dearborn, MI MSA
15	USA WA Seattle Seattle-Tacoma Intl Airport	Seattle-Tacoma-Bellevue, WA MSA
16	USA MN Minneapolis-St. Paul Int'l Arp	Minneapolis-St. Paul-Bloomington, MN-WI MSA
17	USA CA San Diego Lindbergh Field	San Diego-Carlsbad, CA MSA
18	USA FL Tampa Int'l Airport	Tampa-St. Petersburg-Clearwater, FL MSA
19	USA MO St Louis Lambert Int'l Airport	St. Louis, MO-IL MSA
20	USA MD Baltimore-Washington Int'l Airport	Baltimore-Columbia-Towson, MD MSA
21	USA CO Denver Centennial [Golden - NREL]	Denver-Aurora-Lakewood, CO MSA
22	USA PA Pittsburgh Allegheny Co Airport	Pittsburgh, PA MSA
23	USA NC Charlotte Douglas Intl Airport	Charlotte-Concord-Gastonia, NC-SC MSA
24	USA OR Portland Hillsboro	Portland-Vancouver-Hillsboro, OR-WA MSA
25	USA TX San Antonio Intl Airport	San Antonio-New Braunfels, TX MSA
26	USA FL Orlando Intl Airport	Orlando-Kissimmee-Sanford, FL MSA
27	USA CA Sacramento Executive Airport	Sacramento–Roseville–Arden-Arcade, CA MSA
28	USA OH Cincinnati Municipal Airport	Cincinnati, OH-KY-IN MSA
29	USA OH Cleveland Hopkins Intl Airport	Cleveland-Elyria, OH MSA
30	USA MO Kansas City Int'l Airport	Kansas City, MO-KS MSA
31	USA NV Las Vegas McCarran Intl Airport	Las Vegas-Henderson-Paradise, NV MSA
32	USA OH Columbus Port Columbus Intl A	Columbus, OH MSA
33	USA IN Indianapolis Intl Airport	Indianapolis-Carmel-Anderson, IN MSA
34	USA CA San Jose Intl Airport	San Jose-Sunnyvale-Santa Clara, CA MSA
35	USA TX Austin Mueller Municipal Airport	Austin-Round Rock, TX MSA
36	USA TN Nashville Int'l Airport	Nashville-Davidson–Murfreesboro–Franklin, TN MSA

37	USA VA Norfolk Int'l Airport	Virginia Beach-Norfolk-Newport News, VA-NC MSA
38	USA RI Providence T F Green State	Providence-Warwick, RI-MA MSA
39	USA WI Milwaukee Mitchell Intl Airport	Milwaukee-Waukesha-West Allis, WI MSA
40	USA FL Jacksonville Craig	Jacksonville, FL MSA
41	USA TN Memphis Int'l Airport	Memphis, TN-MS-AR MSA
42	USA OK Oklahoma City Will Rogers	Oklahoma City, OK MSA
43	USA KY Louisville Bowman Field	Louisville/Jefferson County, KY-IN MSA
44	USA VA Richmond Int'l Airport	Richmond, VA MSA
45	USA LA New Orleans Alvin Callender	New Orleans-Metairie, LA MSA
46	USA CT Hartford Bradley Intl Airport	Hartford-West Hartford-East Hartford, CT MSA
47	USA NC Raleigh Durham Int'l	Raleigh, NC MSA
48	USA UT Salt Lake City Int'l Airport	Salt Lake City, UT MSA
49	USA AL Birmingham Municipal Airport	Birmingham-Hoover, AL MSA
50	USA NY Buffalo Niagara Intl Airport	Buffalo-Cheektowaga-Niagara Falls, NY MSA
51	USA NY Rochester Greater Rochester	Rochester, NY MSA
52	USA MI Grand Rapids Kent County Int'l Airport	Grand Rapids-Wyoming, MI MSA
53	USA AZ Tucson Int'l Airport	Tucson, AZ MSA
54	USA HI Honolulu Intl Airport	Urban Honolulu, HI MSA
55	USA OK Tulsa Int'l Airport	Tulsa, OK MSA
56	USA CA Fresno Yosemite Intl Airport	Fresno, CA MSA
57	USA CT Bridgeport Sikorsky Memorial	Bridgeport-Stamford-Norwalk, CT MSA
58	USA MA Worchester Regional Airport	Worcester, MA-CT MSA
59	USA NM Albuquerque Intl Airport	Albuquerque, NM MSA
60	USA NE Omaha Eppley Airfield	Omaha-Council Bluffs, NE-IA MSA
61	USA NY Albany County Airport	Albany-Schenectady-Troy, NY MSA
62	USA CA Bakersfield Meadows Field	Bakersfield, CA MSA
63	USA CT New Haven Tweed Airport	New Haven-Milford, CT MSA
64	USA TN Knoxville McGhee Tyson Airport	Knoxville, TN MSA
65	USA SC Greenville Downtown Airport	Greenville-Anderson-Mauldin, SC MSA
66	USA CA Oxnard Airport	Oxnard-Thousand Oaks-Ventura, CA MSA
67	USA TX El Paso Int'l Airport	El Paso, TX MSA
68	USA PA Allentown Lehigh Valley Intl	Allentown-Bethlehem-Easton, PA-NJ MSA
69	USA LA Baton Rouge Ryan Airport	Baton Rouge, LA MSA
70	USA TX McCallen Miller Intl Airport	McAllen-Edinburg-Mission, TX MSA
71	USA OH Dayton Int'l Airport	Dayton, OH MSA
72	USA SC Columbia Metro Airport	Columbia, SC MSA
73	USA NC Greensboro Piedmont Triad Int'l Airport	Greensboro-High Point, NC MSA
74	USA FL Sarasota Bradenton	North Port-Sarasota-Bradenton, FL MSA
75	USA AR Little Rock Adams Field	Little Rock-North Little Rock-Conway, AR MSA
76	USA SC Charleston Intl Airport	Charleston-North Charleston, SC MSA
77	USA OH Akron Akron-canton Reg. Airport	Akron, OH MSA
78	USA CA Stockton Metropolitan Airport	Stockton-Lodi, CA MSA

79	USA CO Colorado Springs Muni Airport	Colorado Springs, CO MSA
80	USA NY Syracuse Hancock Int'l Airport	Syracuse, NY MSA
81	USA FL Fort Myers Page Field	Cape Coral-Fort Myers, FL MSA
82	USA NC Winston-Salem Reynolds Airport	Winston-Salem, NC MSA
83	USA ID Boise Air Terminal	Boise City, ID MSA
84	USA KS Wichita Mid-continent Airport	Wichita, KS MSA
85	USA WI Madison Dane Co Regional Airport	Madison, WI MSA
86	USA MA Worchester Regional Airport	Springfield, MA MSA
87	USA FL Lakeland Linder Regional Airport	Lakeland-Winter Haven, FL MSA
88	USA UT Ogden Hinkley Airport	Ogden-Clearfield, UT MSA
89	USA OH Toledo Express Airport	Toledo, OH MSA
90	USA FL Daytona Beach Intl Airport	Deltona-Daytona Beach-Ormond Beach, FL MSA
91	USA IA Des Moines Intl Airport	Des Moines-West Des Moines, IA MSA
92	USA GA Augusta Bush Field	Augusta-Richmond County, GA-SC MSA
93	USA MS Jackson Int’l Airport	Jackson, MS MSA
94	USA UT Provo Muni	Provo-Orem, UT MSA
95	USA PA Wilkes-Barre Scranton Intl Airport	Scranton–Wilkes-Barre–Hazleton, PA MSA
96	USA PA Harrisburg Capital City Airport	Harrisburg-Carlisle, PA MSA
97	USA OH Youngstown Regional Airport	Youngstown-Warren-Boardman, OH-PA MSA
98	USA FL Melbourne Regional Airport	Palm Bay-Melbourne-Titusville, FL MSA
99	USA TN Chattanooga Lovell Field Airport	Chattanooga, TN-GA MSA
100	USA WA Spokane Int’l Airport	Spokane-Spokane Valley, WA MSA

Appendix 2 – Flow diagram of data sources and analysis



[1] The basic technique employed is described in the paper "Model-Based Sampling and Inference," on the EIA website. Additional references can be found on the InterStat website (http://interstat.statjournals.net/). See the following sources: Knaub, J.R., Jr. (1999a), "Using Prediction-Oriented Software for Survey Estimation," InterStat, August 1999, http://interstat.statjournals.net/; Knaub, J.R. Jr. (1999b), "Model-Based Sampling, Inference and Imputation," EIA web site: http://www.eia.gov/cneaf/electricity/forms/eiawebme.pdf; Knaub, J.R., Jr. (2005), "Classical Ratio Estimator," InterStat, October 2005, http://interstat.statjournals.net/; Knaub, J.R., Jr. (2007a), "Cutoff Sampling and Inference," InterStat, April 2007, http://interstat.statjournals.net/; Knaub, J.R., Jr. (2008), "Cutoff Sampling." Definition in Encyclopedia of Survey Research Methods, Editor: Paul J. Lavrakas, Sage, to appear; Knaub, J.R., Jr. (2000), "Using Prediction-Oriented Software for Survey Estimation - Part II: Ratios of Totals," InterStat, June 2000, http://interstat.statjournals.net/; Knaub, J.R., Jr. (2001), "Using Prediction-Oriented Software for Survey Estimation - Part III: Full-Scale Study of Variance and Bias," InterStat, June 2001, http://interstat.statjournals.net/.

[2] See the following sources: Bahillo, A. et al. Journal of Energy Resources Technology, "NOx and N2O Emissions During Fluidized Bed Combustion of Leather Wastes." Volume 128, Issue 2, June 2006. pp. 99-103; U.S. Energy Information Administration. *Renewable Energy Annual 2004*. "Average Heat Content of Selected Biomass Fuels." Washington, DC, 2005; Penn State Agricultural College Agricultural and Biological Engineering and Council for Solid Waste Solutions. Garth, J. and Kowal, P. Resource Recovery, Turning Waste into Energy, University Park, PA, 1993; Utah State University Recycling Center Frequently Asked Questions. Published at http://www.usu.edu/recycle/faq.htm. Accessed December 2006.

[3] Biogenic components include newsprint, paper, containers and packaging, leather, textiles, yard trimmings, food wastes, and wood. Non-biogenic components include plastics, rubber and other miscellaneous non-biogenic waste.

Table C.1 Average Heat Content of Fossil-Fuel Receipts, November 2015

Census Division and State	Coal (Million Btu per Ton)	Petroleum Liquids (Million Btu per Barrel)	Petroleum Coke (Million Btu per Ton)	Natural Gas (Million Btu per Thousand Cubic Feet)
New England	23.81	6.21	--	1.03
Connecticut	--	6.26	--	1.03
Maine	25.19	6.26	--	1.02
Massachusetts	22.99	6.15	--	1.03
New Hampshire	24.85	5.74	--	1.03
Rhode Island	--	5.79	--	1.03
Vermont	--	--	--	--
Middle Atlantic	23.94	6.23	--	1.04
New Jersey	26.91	5.97	--	1.04
New York	24.96	6.27	--	1.03
Pennsylvania	23.77	5.80	--	1.04
East North Central	19.92	5.80	28.24	1.04
Illinois	17.75	5.78	--	1.02
Indiana	22.34	5.76	29.60	1.03
Michigan	18.76	5.83	26.20	1.03
Ohio	24.53	5.80	27.68	1.06
Wisconsin	17.83	5.83	27.67	1.04
West North Central	16.76	5.81	--	1.06
Iowa	17.69	5.75	--	1.07
Kansas	17.06	5.78	--	1.06
Minnesota	17.75	5.85	--	1.07
Missouri	17.63	5.81	--	1.03
Nebraska	16.97	5.75	--	1.05
North Dakota	13.44	5.79	--	0.98
South Dakota	16.50	--	--	1.05
South Atlantic	23.49	5.79	27.73	1.02
Delaware	--	5.52	--	1.05
District of Columbia	--	--	--	--
Florida	23.34	5.78	27.73	1.01
Georgia	19.60	5.90	--	1.03
Maryland	24.98	5.81	--	1.05
North Carolina	25.07	5.76	--	1.04
South Carolina	24.99	5.99	--	1.03
Virginia	23.75	5.82	--	1.06
West Virginia	24.63	5.67	--	1.08
East South Central	20.62	5.78	28.30	1.03
Alabama	19.99	5.50	--	1.03
Kentucky	21.62	5.84	28.30	1.01
Mississippi	13.14	--	--	1.03
Tennessee	22.10	5.76	--	1.01
West South Central	16.05	5.87	28.86	1.03
Arkansas	17.72	5.87	--	1.02
Louisiana	16.11	5.80	28.86	1.03
Oklahoma	17.16	--	--	1.05
Texas	15.59	5.89	--	1.03
Mountain	18.73	5.74	--	1.05
Arizona	18.85	5.58	--	1.04
Colorado	18.95	--	--	1.08
Idaho	--	--	--	1.02
Montana	16.95	5.92	--	--
Nevada	19.82	5.82	--	1.04
New Mexico	18.14	5.66	--	1.05
Utah	21.93	5.88	--	1.04
Wyoming	17.60	5.80	--	1.04
Pacific Contiguous	18.30	5.85	--	1.04
California	23.31	--	--	1.03
Oregon	17.32	5.83	--	1.04
Washington	17.16	5.93	--	1.07
Pacific Noncontiguous	20.34	6.20	--	1.00
Alaska	15.00	5.50	--	1.00
Hawaii	21.50	6.20	--	--
U.S. Total	19.18	6.14	28.33	1.03

'Coal' includes anthracite, bituminous, subbituminous, lignite, waste coal, synthetic coal, and coal-derived synthesis gas.
'Petroleum Liquids' include distillate fuel oil, residual fuel oil, jet fuel, kerosene, propane, and waste oil.
'Petroleum Coke' includes petroleum coke and synthesis gas derived from petroleum coke.
'Natural Gas' includes a small amount of supplemental gaseous fuels.
Notes: See Glossary for definitions. Values are preliminary. Data represents weighted values.
Source: U.S. Energy Information Administration, Form EIA-923, Power Plant Operations Report.

Table C.2. Comparison of Preliminary Monthly Data Versus Final Monthly Data at the U.S. Level, 2012 through 2014

	Mean Absolute Value of Percent Change Total (All Sectors)		
Item	**2012**	**2013**	**2014**
Net Generation			
Coal	0.20%	0.31%	0.25%
Petroleum Liquids	4.25%	4.04%	2.32%
Petroleum Coke	2.45%	0.95%	2.96%
Natural Gas	0.46%	0.98%	0.42%
Other Gases	6.36%	5.81%	4.12%
Hydroelectric	0.70%	0.65%	0.49%
Nuclear	0.00%	0.00%	0.01%
Other	1.08%	0.56%	0.43%
Total	**0.20%**	**0.19%**	**0.08%**
Consumption of Fossil Fuels for Electricity Generation			
Coal	0.16%	0.07%	0.13%
Petroleum Liquids	4.47%	3.49%	2.17%
Petroleum Coke	3.99%	1.03%	3.19%
Natural Gas	0.37%	0.99%	0.48%
Fuel Stocks for Electric Power Sector			
Coal	0.57%	0.25%	0.38%
Petroleum Liquids	0.64%	2.54%	4.25%
Petroleum Coke	8.22%	0.08%	0.61%
Retail Sales			
Residential	0.16%	0.26%	0.30%
Commercial	0.39%	0.22%	0.38%
Industrial	0.50%	3.20%	4.39%
Transportation	2.44%	1.45%	0.44%
Total	**0.27%**	**0.90%**	**1.10%**
Revenue			
Residential	0.13%	0.34%	0.43%
Commercial	0.20%	0.47%	0.47%
Industrial	0.20%	4.28%	5.66%
Transportation	1.09%	3.84%	1.92%
Total	**0.13%**	**0.76%**	**1.01%**
Average Retail Price			
Residential	0.10%	0.12%	0.12%
Commercial	0.27%	0.30%	0.20%
Industrial	0.39%	1.05%	1.20%
Transportation	1.57%	2.49%	2.18%
Total	**0.21%**	**0.17%**	**0.16%**
Receipt of Fossil Fuels			
Coal	0.99%	2.50%	2.20%
Petroleum Liquids	23.68%	0.79%	0.49%
Petroleum Coke	13.72%	2.30%	2.03%
Natural Gas	10.47%	0.47%	0.26%
Cost of Fossil Fuels			
Coal	0.90%	0.18%	0.18%
Petroleum Liquids	0.53%	0.14%	0.04%
Petroleum Coke	11.66%	1.22%	1.03%
Natural Gas	0.77%	0.02%	0.06%

Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and synthetic coal. Coal stocks exclude waste coal.
Petroleum Liquids include distillate fuel oil, residual fuel oil, jet fuel, kerosene, and waste oil.
Natural gas includes a small amount of supplemental gaseous fuels that cannot be identified separately. Excludes blast furnace gas and other gases.
Hydroelectric includes conventional hydroelectric and hydroelectric pumped storage facilities.
Other generation includes geothermal, wood, waste, wind, and solar, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.
Fuel Stocks are end-of-month values.
See technical notes (http://www.eia.gov/cneaf/electricity/epm/appenc.pdf) for additional information on the Commercial, Industrial and Transportation sectors.
Cost of Fossil Fuels represent weighted values.
Notes: Mean absolute value of percent change is the unweighted average of the absolute percent cahnges.
Sources: U.S. Energy Information Administration, Form EIA-923 'Power Plant Operations Report'; Form EIA-423, 'Monthly Cost and Quality of Fuels for Electric Plants Report'; Form EIA-826, 'Monthly Electric Sales and Revenue With State Distributions Report'; Form EIA-906, 'Power Plant Report;' Form EIA-920 'Combined Heat and Power Plant Report'; and Federal Energy Regulatory Commission, FERC Form 423, 'Monthly Report of Cost and Quality of Fuels for Electric Plants.'

Table C.3. Comparison of Preliminary Annual Data Versus Final Annual Data at the U.S. Level, 2012 through 2014

	2012			2013			2014		
Item	Preliminary Annual Data	Final Annual Data	Percent Change	Preliminary Annual Data	Final Annual Data	Percent Change	Preliminary Annual Data	Final Annual Data	Percent Change
Net Generation (Thousand MWh)									
Coal	1,517,203	1,514,043	-0.21%	1,585,998	1,581,115	-0.31%	1,585,697	1,581,710	-0.25%
Petroleum Liquids	13,209	13,403	1.47%	13,410	13,820	3.06%	18,708	18,276	-2.31%
Petroleum Coke	9,691	9,787	0.99%	13,453	13,344	-0.81%	11,781	11,955	1.48%
Natural Gas	1,230,708	1,225,894	-0.39%	1,113,665	1,124,836	1.00%	1,121,928	1,126,609	0.42%
Other Gases	11,212	11,898	6.11%	12,271	12,853	4.75%	11,578	12,022	3.83%
Hydroelectric	271,878	271,290	-0.22%	264,713	263,884	-0.31%	252,540	253,193	0.26%
Nuclear	769,331	769,331	0.00%	789,017	789,016	0.00%	797,067	797,166	0.01%
Other	231,253	232,120	0.37%	265,683	267,096	0.53%	293,636	292,674	-0.33%
Total	**4,054,485**	**4,047,765**	**-0.17%**	**4,058,209**	**4,065,964**	**0.19%**	**4,092,935**	**4,093,606**	**0.02%**
Consumption of Fossil Fuels for Electricity Generation									
Coal (1,000 tons)	826,700	825,734	-0.12%	860,790	860,729	-0.01%	854,416	853,634	-0.09%
Petroleum Liquids (1,000 barrels)	22,523	22,604	0.36%	22,751	23,231	2.11%	32,084	31,531	-1.72%
Petroleum Coke (1,000 tons)	3,552	3,675	3.44%	4,893	4,852	-0.83%	4,325	4,412	2.02%
Natural Gas (1,000 Mcf)	9,465,207	9,484,710	0.21%	8,512,483	8,596,299	0.98%	8,502,964	8,544,387	0.49%
Fuel Stocks for Electric Power Sector									
Coal (1,000 tons)	184,923	185,116	0.10%	147,973	147,884	-0.06%	151,362	151,548	0.12%
Petroleum Liquids (1,000 barrels)	31,897	32,224	1.03%	31,045	31,673	2.03%	32,139	33,505	4.25%
Petroleum Coke (1,000 tons)	495	495	-0.01%	390	390	-0.01%	847	827	-2.29%
Retail Sales (Million kWh)									
Residential	1,374,594	1,374,515	-0.01%	1,391,102	1,394,812	0.27%	1,402,911	1,407,208	0.31%
Commercial	1,323,844	1,327,101	0.25%	1,338,464	1,337,079	-0.10%	1,357,505	1,352,158	-0.39%
Industrial	980,837	985,714	0.50%	954,731	985,352	3.21%	955,488	997,576	4.40%
Transportation	7,504	7,320	-2.45%	7,525	7,625	1.32%	7,776	7,758	-0.24%
Total	**3,686,780**	**3,694,650**	**0.21%**	**3,691,822**	**3,724,868**	**0.90%**	**3,723,681**	**3,764,700**	**1.10%**
Revenue (Million Dollars)									
Residential	163,352	163,280	-0.04%	168,547	169,131	0.35%	175,404	176,178	0.44%
Commercial	133,908	133,898	-0.01%	137,779	137,188	-0.43%	145,889	145,253	-0.44%
Industrial	65,691	65,761	0.11%	65,111	67,934	4.33%	67,019	70,855	5.72%
Transportation	754	747	-0.90%	775	805	3.84%	798	810	1.51%
Total	**363,705**	**363,687**	**0.00%**	**372,213**	**375,058**	**0.76%**	**389,111**	**393,096**	**1.02%**
Average Retail Price (Cents/kWh)									
Residential	11.88	11.88	-0.04%	12.12	12.13	0.08%	12.50	12.52	0.13%
Commercial	10.12	10.09	-0.25%	10.29	10.26	-0.33%	10.75	10.74	-0.04%
Industrial	6.70	6.67	-0.39%	6.82	6.89	1.09%	7.01	7.10	1.26%
Transportation	10.05	10.21	1.59%	10.30	10.55	2.49%	10.27	10.45	1.75%
Total	**9.87**	**9.84**	**-0.22%**	**10.08**	**10.07**	**-0.13%**	**10.45**	**10.44**	**-0.08%**
Receipt of Fossil Fuels									
Coal (1,000 tons)	849,667	841,183	-1.00%	803,206	823,222	2.49%	836,196	854,560	2.20%
Petroleum Liquids (1,000 barrels)	25,485	19,464	-23.63%	20,348	20,413	0.32%	28,355	28,514	0.56%
Petroleum Coke (1,000 tons)	4,858	4,180	-13.95%	4,555	4,660	2.31%	5,091	5,195	2.03%
Natural Gas (1,000 Mcf)	10,631,822	9,531,389	-10.35%	8,463,303	8,503,424	0.47%	8,423,883	8,431,423	0.09%
Cost of Fossil Fuels (Dollars per Million Btu)									
Coal (1,000 tons)	2.40	2.38	-0.89%	2.35	2.34	-0.12%	2.37	2.37	0.02%
Petroleum Liquids (1,000 barrels)	21.82	21.85	0.12%	20.59	20.56	-0.12%	19.89	19.89	-0.03%
Petroleum Coke (1,000 tons)	2.54	2.24	-11.90%	2.16	2.17	0.70%	1.96	1.98	0.97%
Natural Gas (1,000 Mcf)	3.40	3.42	0.64%	4.33	4.33	0.03%	4.99	4.99	0.01%

Coal includes anthracite, bituminous, subbituminous, lignite, waste coal, and synthetic coal. Coal stocks exclude waste coal.
Petroleum Liquids include distillate fuel oil, residual fuel oil, jet fuel, kerosene, and waste oil.
Natural gas includes a small amount of supplemental gaseous fuels that cannot be identified separately. Excludes blast furnace gas and other gases.
Hydroelectric includes conventional hydroelectric and hydroelectric pumped storage facilities.
Other generation includes geothermal, wood, waste, wind, and solar, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.
Fuel Stocks are end-of-year values.
See technical notes (http://www.eia.gov/cneaf/electricity/epm/appenc.pdf) for additional information on the Commercial, Industrial and Transportation sectors.
Cost of Fossil Fuels represent weighted values.
Notes: The average revenue per kilowatthour is calculated by dividing revenue by sales. Totals may not equal sum of components because of independent rounding.
Percent changes refer to the difference between the preliminary data published in the Electric Power Monthly (EPM) and the final data published in the EPM. Values for 2014 are Final.
Sources: U.S. Energy Information Administration, Form EIA-923 'Power Plant Operations Report'; Form EIA-423, 'Monthly Cost and Quality of Fuels for Electric Plants Report'; Form EIA-826, 'Monthly Electric Sales and Revenue With State Distributions Report'; Form EIA-906, 'Power Plant Report;' Form EIA-920 'Combined Heat and Power Plant Report'; and Federal Energy Regulatory Commission, FERC Form 423, 'Monthly Report of Cost and Quality of Fuels for Electric Plants.'

Table C.4. Unit of Measure Equivalents for Electricity

Unit	Equivalent
Kilowatt (kW)	1,000 (One Thousand) Watts
Megawatt (MW)	1,000,000 (One Million) Watts
Gigawatt (GW)	1,000,000,000 (One Billion) Watts
Terawatt (TW)	1,000,000,000,000 (One Trillion) Watts
Gigawatt	1,000,000 (One Million) Kilowatts
Thousand Gigawatts	1,000,000,000 (One Billion) Kilowatts
Kilowatthours (kWh)	1,000 (One Thousand) Watthours
Megawatthours (MWh)	1,000,000 (One Million) Watthours
Gigawatthours (GWh)	1,000,000,000 (One Billion) Watthours
Terawatthours (TWh)	1,000,000,000,000 (One Trillion) Watthours
Gigawatthours	1,000,000 (One Million) Kilowatthours
Thousand Gigawatthours	1,000,000,000(One Billion Kilowatthours

Source: U.S. Energy Information Administration

Glossary

Anthracite: The highest rank of coal; used primarily for residential and commercial space heating. It is a hard, brittle, and black lustrous coal, often referred to as hard coal, containing a high percentage of fixed carbon and a low percentage of volatile matter. The moisture content of fresh-mined anthracite generally is less than 15 percent. The heat content of anthracite ranges from 22 to 28 million Btu per ton on a moist, mineral-matter-free basis. The heat content of anthracite coal consumed in the United States averages 25 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter). Note: Since the 1980's, anthracite refuse or mine waste has been used for steam electric power generation. This fuel typically has a heat content of 15 million Btu per ton or less.

Ash: Impurities consisting of silica, iron, aluminum, and other noncombustible matter that are contained in coal. Ash increases the weight of coal, adds to the cost of handling, and can affect its burning characteristics. Ash content is measured as a percent by weight of coal on a "received" or a "dry" (moisture-free, usually part of a laboratory analysis) basis.

Ash content: The amount of ash contained in the fuel (except gas) in terms of percent by weight.

Average Price of Electricity to Ultimate Consumers (formerly known as Average Revenue per Kilowatthour): The average revenue per kilowatthour of electricity sold by sector (residential, commercial, industrial, or other) and geographic area (State, Census division, and national), is calculated by dividing the total monthly revenue by the corresponding total monthly sales for each sector and geographic area.

Barrel: A unit of volume equal to 42 U.S. gallons.

Biomass: Organic non-fossil material of biological origin constituting a renewable energy resource.

Bituminous coal: A dense coal, usually black, sometimes dark brown, often with well-defined bands of bright and dull material, used primarily as fuel in steam-electric power generation, with substantial quantities also used for heat and power applications in manufacturing and to make coke. Bituminous coal is the most abundant coal in active U.S. mining regions. Its moisture content usually is less than 20 percent. The heat content of bituminous coal ranges from 21 to 30 million Btu per ton on a moist, mineral-matter-free basis. The heat content of bituminous coal consumed in the United States averages 24 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

British thermal unit: The quantity of heat required to raise the temperature of 1 pound of liquid water by 1 degree Fahrenheit at the temperature at which water has its greatest density (approximately 39 degrees Fahrenheit).

Btu: The abbreviation for British thermal unit(s).

Capacity: See Generator Capacity and Generator Name Plate Capacity (Installed).

Census Divisions: Any of nine geographic areas of the United States as defined by the U.S. Department of Commerce, Bureau of the Census. The divisions, each consisting of several States, are defined as follows:

1) *New England:* Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont;
2) *Middle Atlantic:* New Jersey, New York, and Pennsylvania;
3) *East North Central:* Illinois, Indiana, Michigan, Ohio, and Wisconsin;
4) *West North Central:* Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, and South Dakota;
5) *South Atlantic:* Delaware, District of Columbia, Florida, Georgia, Maryland, North Carolina, South Carolina, Virginia, and West Virginia;
6) *East South Central:* Alabama, Kentucky, Mississippi, and Tennessee;
7) *West South Central:* Arkansas, Louisiana, Oklahoma, and Texas;
8) *Mountain:* Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, and Wyoming;
9) *Pacific:* Alaska, California, Hawaii, Oregon, and Washington.

Note: Each division is a sub-area within a broader Census Region. In some cases, the Pacific division is subdivided into the Pacific Contiguous area (California, Oregon, and Washington) and the Pacific Noncontiguous area (Alaska and Hawaii).

Coal: A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time.

Coal synfuel: Coal-based solid fuel that has been processed by a coal synfuel plant; and coal-based fuels such as briquettes, pellets, or extrusions, which are formed from fresh or recycled coal and binding materials.

Coke (petroleum): A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (of 42 U.S. gallons each) per short ton. Coke from petroleum has a heating value of 6.024 million Btu per barrel.

Combined cycle: An electric generating technology in which electricity is produced from otherwise lost waste heat exiting from one or more gas (combustion) turbine-generators. The exiting heat from the combustion turbine(s) is routed to a conventional boiler or to a heat recovery steam generator for utilization by a steam turbine in the production of additional electricity.

Combined heat and power (CHP): Includes plants designed to produce both heat and electricity from a single heat source. *Note:* This term is being used in place of the term "cogenerator" that was used by EIA in the past. CHP better describes the facilities because some of the plants included do not produce heat and power in a sequential fashion and, as a result, do not meet the legal definition of cogeneration specified in the Public Utility Regulatory Policies Act (PURPA).

Commercial sector: An energy-consuming sector that consists of service-providing facilities and equipment of: businesses; Federal, State, and local governments; and other private and public organizations, such as religious, social, or fraternal groups. The commercial sector includes institutional living quarters. It also includes sewage treatment facilities. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a wide variety of other equipment. *Note:* This sector includes generators that produce electricity and/or useful thermal output primarily to support the activities of the above-mentioned commercial establishments.

Consumption (fuel): The use of energy as a source of heat or power or as a raw material input to a manufacturing process.

Cost: The amount paid to acquire resources, such as plant and equipment, fuel, or labor services.

Demand (electric): The rate at which electric energy is delivered to or by a system, part of a system, or piece of equipment, at a given instant or averaged over any designated period of time.

Diesel: A distillate fuel oil that is used in diesel engines such as those used for transportation and for electric power generation.

Distillate fuel oil: *A general classification for one of the petroleum fractions produced in conventional distillation operations. It includes diesel fuels and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and electric power generation.*

1) *No. 1 Distillate:* A light petroleum distillate that can be used as either a diesel fuel (see No. 1 Diesel Fuel) or a fuel oil. See No. 1 Fuel Oil.

- *No. 1 Diesel fuel:* A light distillate fuel oil that has distillation temperatures of 550 degrees Fahrenheit at the 90-percent point and meets the specifications defined in ASTM Specification D 975. It is used in high-speed diesel engines, such as those in city buses and similar vehicles. See No. 1 Distillate above.
- *No. 1 Fuel oil:* A light distillate fuel oil that has distillation temperatures of 400 degrees Fahrenheit at the 10-percent recovery point and 550 degrees Fahrenheit at the 90-percent point and meets the specifications defined in ASTM Specification D 396. It is used primarily as fuel for portable outdoor stoves and portable outdoor heaters. See No. 1 Distillate above.

2) *No. 2 Distillate:* A petroleum distillate that can be used as either a diesel fuel (see No. 2 Diesel Fuel definition below) or a fuel oil. See No. 2 Fuel oil below.

- *No. 2 Diesel fuel:* A fuel that has distillation temperatures of 500 degrees Fahrenheit at the 10-percent recovery point and 640 degrees Fahrenheit at the 90-percent recovery point and meets the specifications defined in ASTM Specification D 396. It is used in atomizing type burners for domestic heating or for moderate capacity commercial/industrial burner units. See No. 2 Distillate above.

3) *No. 4 Fuel:* A distillate fuel oil made by blending distillate fuel oil and residual fuel oil stocks. It conforms with ASTM Specification D 396 or Federal Specification VV-F-815C and is used extensively in industrial plants and in commercial burner installations that are not equipped with preheating facilities. It also includes No. 4 diesel fuel used for low- and medium-speed diesel engines and conforms to ASTM Specification D 975.

- *No. 4 Diesel fuel and No. 4 Fuel oil:* See No. 4 Fuel above.

Electric industry restructuring: The process of replacing a monopolistic system of electric utility suppliers with competing sellers, allowing individual ultimate customers to choose their supplier but still receive delivery over the power lines of the local utility. It includes the reconfiguration of vertically integrated electric utilities.

Electric plant (physical): A facility containing prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or fission energy into electric energy.

Electric power sector: An energy-consuming sector that consists of electricity-only and combined-heat-and-power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public-- i. e., North American Industry Classification System 22 plants.

Electric utility: A corporation, person, agency, authority, or other legal entity or instrumentality aligned with distribution facilities for delivery of electric energy for use primarily by the public. Included are investor-owned electric utilities, municipal and State utilities, Federal electric utilities, and rural electric cooperatives. A few entities that are tariff based and corporately aligned with companies that own distribution facilities are also included. Note: Due to the issuance of FERC Order 888 that required traditional electric utilities to functionally unbundle their generation, transmission, and distribution operations, "electric utility" currently has inconsistent interpretations from State to State.

Electricity: A form of energy characterized by the presence and motion of elementary charged particles generated by friction, induction, or chemical change.

Electricity generation: The process of producing electric energy or the amount of electric energy produced by transforming other forms of energy, commonly expressed in kilowatthours (kWh) or megawatthours (MWh).

Electricity generators: The facilities that produce only electricity, commonly expressed in kilowatthours (kWh) or megawatthours (MWh).

Energy: The capacity for doing work as measured by the capability of doing work (potential energy) or the conversion of this capability to motion (kinetic energy). Energy has several forms, some of which are easily convertible and can be changed to another form useful for work. Most of the world's convertible energy comes from fossil fuels that are burned to produce heat that is then used as a transfer medium to mechanical or other means in order to accomplish tasks. Electrical energy is usually measured in kilowatthours, while heat energy is usually measured in British thermal units.

Energy conservation features: This includes building shell conservation features, HVAC conservation features, lighting conservation features, any conservation features, and other conservation features incorporated by the building. However, this category does not include any demand-side management (DSM) program participation by the building. Any DSM program participation is included in the DSM Programs.

Energy efficiency: Refers to programs that are aimed at reducing the energy used by specific end-use devices and systems, typically without affecting the services provided. These programs reduce overall electricity consumption (reported in megawatthours), often without explicit consideration for the timing of program-induced savings. Such savings are generally achieved by substituting technically more advanced equipment to produce the same level of end-use services (e.g. lighting, heating, motor drive) with less electricity. Examples include high-efficiency appliances, efficient lighting programs, high-efficiency heating, ventilating and air conditioning (HVAC) systems or control modifications, efficient building design, advanced electric motor drives, and heat recovery systems.

Energy service provider: An energy entity that provides service to an ultimate consumer.

Energy source: Any substance or natural phenomenon that can be consumed or transformed to supply heat or power. Examples include petroleum, coal, natural gas, nuclear, biomass, electricity, wind, sunlight, geothermal, water movement, and hydrogen in fuel cells.

Energy-only service: Sales services for ultimate consumers for which the company provided only the energy consumed, where another entity provides delivery services.

Fossil fuel: An energy source formed in the earths crust from decayed organic material. The common fossil fuels are petroleum, coal, and natural gas.

Franchised service area: A specified geographical area in which a utility has been granted the exclusive right to serve customers. A franchise allows an entity to use city streets, alleys and other public lands in order to provide, distribute, and sell services to the community.

Fuel: Any material substance that can be consumed to supply heat or power. Included are petroleum, coal, and natural gas (the fossil fuels), and other consumable materials, such as uranium, biomass, and hydrogen.

Gas: A fuel burned under boilers and by internal combustion engines for electric generation. These include natural, manufactured and waste gas.

Gas turbine plant: An electric generating facility in which the prime mover is a gas (combustion) turbine. A gas turbine typically consists of an air compressor and one or more combustion chambers where either liquid or gaseous fuel is burned. The resulting hot gases are passed through the turbine where they expand to drive both an electric generator and the compressor.

Generating unit: Any combination of physically connected generators, reactors, boilers, combustion turbines, or other prime movers operated together to produce electric power.

Generator: A machine that converts mechanical energy into electrical energy.

Generator capacity: The maximum output, commonly expressed in megawatts (MW), that generating equipment can supply to system load, adjusted for ambient conditions.

Generator nameplate capacity (installed): The maximum rated output of a generator, prime mover, or other electric power production equipment under specific conditions designated by the manufacturer. Installed generator nameplate capacity is commonly expressed in megawatts (MW) and is usually indicated on a nameplate physically attached to the generator.

Geothermal: Pertaining to heat within the Earth.

Geothermal energy: Hot water or steam extracted from geothermal reservoirs in the earth's crust. Water or steam extracted from geothermal reservoirs can be used for geothermal heat pumps, water heating, or electricity generation.

Gigawatt (GW): One billion watts.

Gigawatthour (GWh): One billion watthours.

Gross generation: The total amount of electric energy produced by generating units and measured at the generating terminal in kilowatthours (kWh) or megawatthours (MWh).

Heat content: The amount or number of British thermal units (Btu) produced by the combustion of fuel, measured in Btu/unit of measure.

Hydroelectric power: The production of electricity from the kinetic energy of falling water.

Hydroelectric power generation: Electricity generated by an electric power plant whose turbines are driven by falling water. It includes electric utility and industrial generation of hydroelectricity, unless otherwise specified. Generation is reported on a net basis, i.e., on the amount of electric energy generated after the electric energy consumed by station auxiliaries and the losses in the transformers that are considered integral parts of the station are deducted.

Hydroelectric pumped storage: Hydroelectricity that is generated during peak loads by using water previously pumped into an elevated storage reservoir during off-peak periods when excess generating capacity is available to do so. When additional generating capacity is needed, the water can be released from the reservoir through a conduit to turbine generators located in a power plant at a lower level.

Hydrogen: A colorless, odorless, highly flammable gaseous element. It is the lightest of all gases and the most abundant element in the universe, occurring chiefly in combination with oxygen in water and also in acids, bases, alcohols, petroleum, and other hydrocarbons.

Independent power producer: A corporation, person, agency, authority, or other legal entity or instrumentality that owns or operates facilities for the generation of electricity for use primarily by the public, and that is not an electric utility.

Industrial sector: An energy-consuming sector that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity: manufacturing (NAICS codes 31-33); agriculture, forestry, and hunting (NAICS code 11); mining, including oil and gas extraction (NAICS code 21); natural gas distribution (NAICS code 2212); and construction (NAICS code 23). Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products. Note: This sector includes generators that produce electricity and/or useful thermal output primarily to support the above-mentioned industrial activities.

Interdepartmental service (electric): Interdepartmental service includes amounts charged by the electric department at tariff or other specified rates for electricity supplied by it to other utility departments.

Internal combustion plant: A plant in which the prime mover is an internal combustion engine. An internal combustion engine has one or more cylinders in which the process of combustion takes place, converting energy released from the rapid burning of a fuel-air mixture into mechanical energy. Diesel or gas-fired engines are the principal types used in electric plants. The plant is usually operated during periods of high demand for electricity.

Investor-owned utility (IOU): A privately-owned electric utility whose stock is publicly traded. It is rate regulated and authorized to achieve an allowed rate of return.

Jet fuel: A refined petroleum product used in jet aircraft engines. It includes kerosene-type jet fuel and naphtha-type jet fuel.

Kerosene: A light petroleum distillate that is used in space heaters, cook stoves, and water heaters and is suitable for use as a light source when burned in wick-fed lamps. Kerosene has a maximum distillation temperature of 400 degrees Fahrenheit at the 10-percent recovery point, a final boiling point of 572 degrees Fahrenheit, and a minimum flash point of 100 degrees Fahrenheit. Included are No. 1-K and No. 2-K, the two grades recognized by ASTM Specification D 3699 as well as all other grades of kerosene called range or stove oil, which have properties similar to those of No. 1 fuel oil.

Kilowatt (kW): One thousand watts.

Kilowatthour (kWh): One thousand watthours.

Light oil: Lighter fuel oils distilled off during the refining process. Virtually all petroleum used in internal combustion and gas-turbine engines is light oil.

Lignite: The lowest rank of coal, often referred to as brown coal, used almost exclusively as fuel for steam-electric power generation. It is brownish-black and has a high inherent moisture content, sometimes as high as 45 percent. The heat content of lignite ranges from 9 to 17 million Btu per ton on a moist, mineral-matter-free basis. The heat content of lignite consumed in the United States averages 13 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Manufactured gas: A gas obtained by destructive distillation of coal, or by thermal decomposition of oil, or by the reaction of steam passing through a bed of heated coal or coke. Examples are coal gases, coke oven gases, producer gas, blast furnace gas, blue (water) gas, and carbureted water gas

Mcf: One thousand cubic feet.

Megawatt (MW): One million watts of electricity.

Megawatthour (MWh): One million watthours.

Municipal utility: A nonprofit utility, owned by a local municipality and operated as a department thereof, governed by a city council or an independently elected or appointed board; primarily involved in the distribution and/or sale of electric power to ultimate consumers.

Natural gas: A gaseous mixture of hydrocarbon compounds, the primary one being methane. Note: The Energy Information Administration measures wet natural gas and its two sources of production, associated/dissolved natural gas and nonassociated natural gas, and dry natural gas, which is produced from wet natural gas.

1) *Wet natural gas:* A mixture of hydrocarbon compounds and small quantities of various nonhydrocarbons existing in the gaseous phase or in solution with crude oil in porous rock formations at reservoir conditions. The principal hydrocarbons normally contained in the mixture are methane, ethane, propane, butane, and pentane. Typical nonhydrocarbon gases that may be present in reservoir natural gas are water vapor, carbon dioxide, hydrogen sulfide, nitrogen and trace amounts of helium. Under reservoir conditions, natural gas and its associated liquefiable portions occur either in a single gaseous phase in the reservoir or in solution with crude oil and are not distinguishable at the time as separate substances. Note: The Securities and Exchange Commission and the Financial Accounting Standards Board refer to this product as natural gas.

- Associated-dissolved natural gas: Natural gas that occurs in crude oil reservoirs either as free gas (associated) or as gas in solution with crude oil (dissolved gas).
- Nonassociated natural gas: Natural gas that is not in contact with significant quantities of crude oil in the reservoir.

2) *Dry natural gas:* Natural gas which remains after: 1) the liquefiable hydrocarbon portion has been removed from the gas stream (i.e., gas after lease, field, and/or plant separation); and 2) any volumes of nonhydrocarbon gases have been removed where they occur in sufficient quantity to render the gas unmarketable. Note: Dry natural gas is also known as consumer-grade natural gas. The parameters for measurement are cubic feet at 60 degrees Fahrenheit and 14.73 pounds per square inch absolute.

Net generation: The amount of gross generation less the electrical energy consumed at the generating station(s) for station service or auxiliaries. Note: Electricity required for pumping at pumped-storage plants is regarded as electricity for station service and is deducted from gross generation.

Net summer capacity: The maximum output, commonly expressed in megawatts (MW), that generating equipment can supply to system load, as demonstrated by a multi-hour test, at the time of summer peak demand (period of May 1 through October 31). This output reflects a reduction in capacity due to electricity use for station service or auxiliaries.

Net winter capacity: The maximum output, commonly expressed in megawatts (MW), that generating equipment can supply to system load, as demonstrated by a multi-hour test, at the time of peak winter demand (period of November 1 though April 30). This output reflects a reduction in capacity due to electricity use for station service or auxiliaries.

North American Electric Reliability Council (NERC): A council formed in 1968 by the electric utility industry to promote the reliability and adequacy of bulk power supply in the electric utility systems of North America. The NERC Regions are:

1) Texas Regional Entity (TRE),
2) Florida Reliability Coordinating Council (FRCC),
3) Midwest Reliability Organization (MRO),
4) Northeast Power Coordinating Council (NPCC),
5) ReliabilityFirst Corporation (RFC),
6) Southeastern Electric Reliability Council (SERC),
7) Southwest Power Pool (SPP), and the
8) Western Energy Coordinating Council (WECC).

North American Industry Classification System (NAICS): A set of codes that describes the possible purposes of a facility.

Nuclear electric power: Electricity generated by an electric power plant whose turbines are driven by steam produced by the heat from the fission of nuclear fuel in a reactor.

Other customers: Includes public street and highway lighting, other sales to public authorities, sales to railroads and railways, sales for irrigation, and interdepartmental sales.

Other generation: Electricity originating from these sources: manufactured, supplemental gaseous fuel, propane, and waste gasses, excluding natural gas; biomass; geothermal; wind; solar thermal; photovoltaic; synthetic fuel; purchased steam; and waste oil energy sources.

Percent change: The relative change in a quantity over a specified time period. It is calculated as follows: the current value has the previous value subtracted from it; this new number is divided by the absolute value of the previous value; then this new number is multiplied by 100.

Petroleum: A broadly defined class of liquid hydrocarbon mixtures. Included are crude oil, lease condensate, unfinished oils, refined products obtained from the processing of crude oil, and natural gas plant liquids. Note: Volumes of finished petroleum products include nonhydrocarbon compounds, such as additives and detergents, after they have been blended into the products.

Petroleum coke: See Coke (petroleum).

Photovoltaic energy: Direct-current electricity generated from sunlight through solid-state semiconductor devices that have no moving parts.

Plant: A term commonly used either as a synonym for an industrial establishment or a generation facility or to refer to a particular process within an establishment.

Power: The rate at which energy is transferred. Electrical energy is usually measured in watts. Also used for a measurement of capacity.

Power production plant: All the land and land rights, structures and improvements, boiler or reactor vessel equipment, engines and engine-driven generator, turbo generator units, accessory electric equipment, and miscellaneous power plant equipment are grouped together for each individual facility.

Production (electric): Act or process of producing electric energy from other forms of energy; also, the amount of electric energy expressed in watthours (Wh).

Propane: A normally gaseous straight-chain hydrocarbon, (C3H8). It is a colorless paraffinic gas that boils at a temperature of -43.67 degrees Fahrenheit. It is extracted from natural gas or refinery gas streams. It includes all products covered by Gas Processors Association Specifications for commercial propane and HD-5 propane and ASTM Specification D 1835.

Public street and highway lighting service: Includes electricity supplied and services rendered for the purpose of lighting streets, highways, parks and other public places; or for traffic or other signal system service, for municipalities, or other divisions or agencies of State or Federal governments.

Railroad and railway electric service: Electricity supplied to railroads and interurban and street railways, for general railroad use, including the propulsion of cars or locomotives, where such electricity is supplied under separate and distinct rate schedules.

Receipts: Purchases of fuel.

Relative standard error: The standard deviation of a distribution divided by the arithmetic mean, sometimes multiplied by 100. It is used for the purpose of comparing the variabilities of frequency distributions but is sensitive to errors in the means.

Residential: An energy-consuming sector that consists of living quarters for private households. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a variety of other appliances. The residential sector excludes institutional living quarters.

Residual fuel oil: A general classification for the heavier oils, known as No. 5 and No. 6 fuel oils, that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations. It conforms to ASTM Specifications D 396 and D 975 and Federal Specification VV-F-815C. No. 5, a residual fuel oil of medium viscosity, is also known as Navy Special and is defined in Military Specification MIL-F-859E, including Amendment 2 (NATO Symbol F-770). It is used in steam-powered vessels in government

service and inshore power plants. No. 6 fuel oil includes Bunker C fuel oil and is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

Retail: Sales covering electrical energy supplied for residential, commercial, and industrial end-use purposes. Other small classes, such as agriculture and street lighting, also are included in this category.

Revenues: The total amount of money received by a firm from sales of its products and/or services, gains from the sales or exchange of assets, interest and dividends earned on investments, and other increases in the owner's equity except those arising from capital adjustments.

Sales: The transfer of title to an energy commodity from a seller to a buyer for a price or the quantity transferred during a specified period.

Service classifications (sectors): Consumers grouped by similar characteristics in order to be identified for the purpose of setting a common rate for electric service. Usually classified into groups identified as residential, commercial, industrial and other.

Service to public authorities: Public authority service includes electricity supplied and services rendered to municipalities or divisions or agencies of State and Federal governments, under special contracts or agreements or service classifications applicable only to public authorities.

Solar energy: The radiant energy of the sun that can be converted into other forms of energy, such as heat or electricity. Electricity produced from solar energy heats a medium that powers an electricity-generating device.

State power authority: A nonprofit utility owned and operated by a state government agency, primarily involved in the generation, marketing, and/or transmission of wholesale electric power.

Steam-electric power plant (conventional): A plant in which the prime mover is a steam turbine. The steam used to drive the turbine is produced in a boiler where fossil fuels are burned.

Stocks of fuel: A supply of fuel accumulated for future use. This includes coal and fuel oil stocks at the plant site, in coal cars, tanks, or barges at the plant site, or in separate storage sites.

Subbituminous coal: A coal whose properties range from those of lignite to those of bituminous coal and used primarily as fuel for steam-electric power generation. It may be dull, dark brown to black, soft and crumbly, at the lower end of the range, to bright, jet black, hard, and relatively strong, at the upper end. Subbituminous coal contains 20 to 30 percent inherent moisture by weight. The heat content of subbituminous coal ranges from 17 to 24 million Btu per ton on a moist, mineral-matter-free basis. The heat content of subbituminous coal consumed in the United States averages 17 to 18 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Sulfur: A yellowish nonmetallic element, sometimes known as "brimstone." It is present at various levels of concentration in many fossil fuels whose combustion releases sulfur compounds that are considered harmful to the environment. Some of the most commonly used fossil fuels are categorized according to their sulfur content, with lower sulfur fuels usually selling at a higher price. Note: No. 2 Distillate fuel is

currently reported as having either a 0.05 percent or lower sulfur level for on-highway vehicle use or a greater than 0.05 percent sulfur level for off-highway use, home heating oil, and commercial and industrial uses. Residual fuel, regardless of use, is classified as having either no more than 1 percent sulfur or greater than 1 percent sulfur. Coal is also classified as being low-sulfur at concentrations of 1 percent or less or high-sulfur at concentrations greater than 1 percent.

Sulfur content: The amount of sulfur contained in the fuel (except gas) in terms of percent by weight.

Supplemental gaseous fuel supplies: Synthetic natural gas, propane-air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

Synthetic fuel: A gaseous, liquid, or solid fuel that does not occur naturally. Synfuels can be made from coal (coal gasification or coal liquefaction), petroleum products, oil shale, tar sands, or plant products. Among the synfuels are various fuel gases, including but not restricted to substitute natural gas, liquid fuels for engines (e.g., gasoline, diesel fuel, and alcohol fuels) and burner fuels (e.g., fuel heating oils).

Terrawatt: One trillion watts.

Terrawatthour: One trillion kilowatthours.

Ton: A unit of weight equal to 2,000 pounds.

Turbine: A machine for generating rotary mechanical power from the energy of a stream of fluid (such as water, steam, or hot gas). Turbines convert the kinetic energy of fluids to mechanical energy through the principles of impulse and reaction, or a mixture of the two.

Ultimate consumer: A consumer that purchases electricity for its own use and not for resale.

Useful thermal output: The thermal energy made available in a combined heat or power system for use in any industrial or commercial process, heating or cooling application, or delivered to other end users, i.e., total thermal energy made available for processes and applications other than electrical generation.

Waste coal: As a fuel for electric power generation, waste coal includes anthracite refuse or mine waste, waste from anthracite preparation plants, and coal recovered from previously mined sites.

Waste gases: As a fuel for electric power generation, waste gasses are those gasses that are produced from gasses recovered from a solid-waste or wastewater treatment facility, or the gaseous by-products of oil-refining processes.

Waste oil: As a fuel for electric power generation, waste oil includes recycled motor oil, and waste oil from transformers.

Watt (W): The unit of electrical power equal to one ampere under a pressure of one volt. A Watt is equal to 1/746 horsepower.

Watthour (Wh): The electrical energy unit of measure equal to one watt of power supplied to, or taken from, an electric circuit steadily for one hour.

Wind energy: The kinetic energy of wind converted into mechanical energy by wind turbines (i.e., blades rotating from the hub) that drive generators to produce electricity.

Year-to -date: The cumulative sum of each month's value starting with January and ending with the current month of the data.